APPENDICES

Appendices A-F and H-K

REMEDIAL INVESTIGATION REPORT

South Park Marina Site

Prepared for:

City of Seattle, Seattle City Light,
The Port of Seattle, and
South Park Marina Limited Partnership

Project No. AS190293A • September 1, 2026 • Final

earth + water

Aspect
A Geosyntec Company

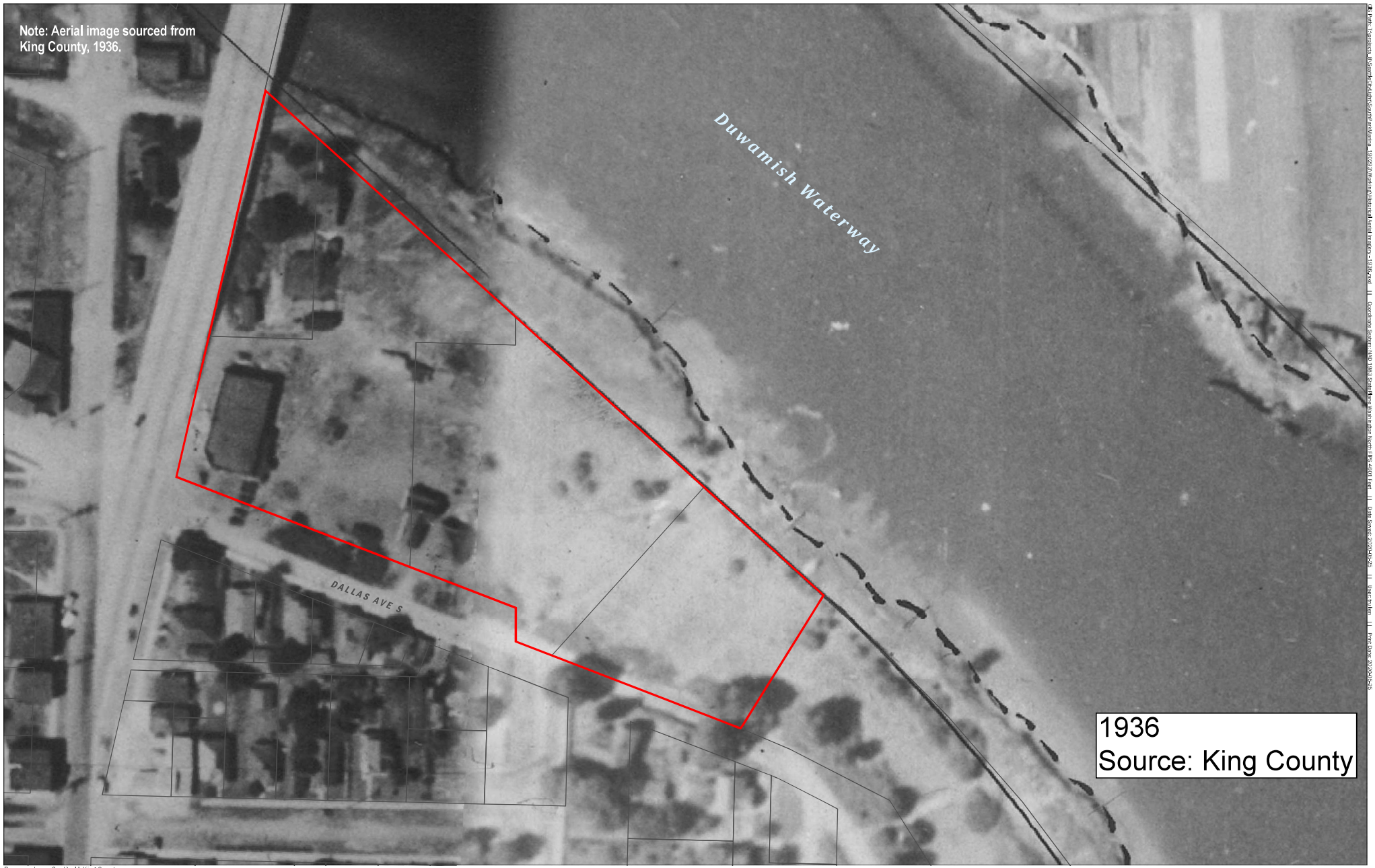
BLACK RIVER
environmental

APPENDIX A

Key Historical Document Excerpts

APPENDIX A.1

Aerial and Oblique Photographs

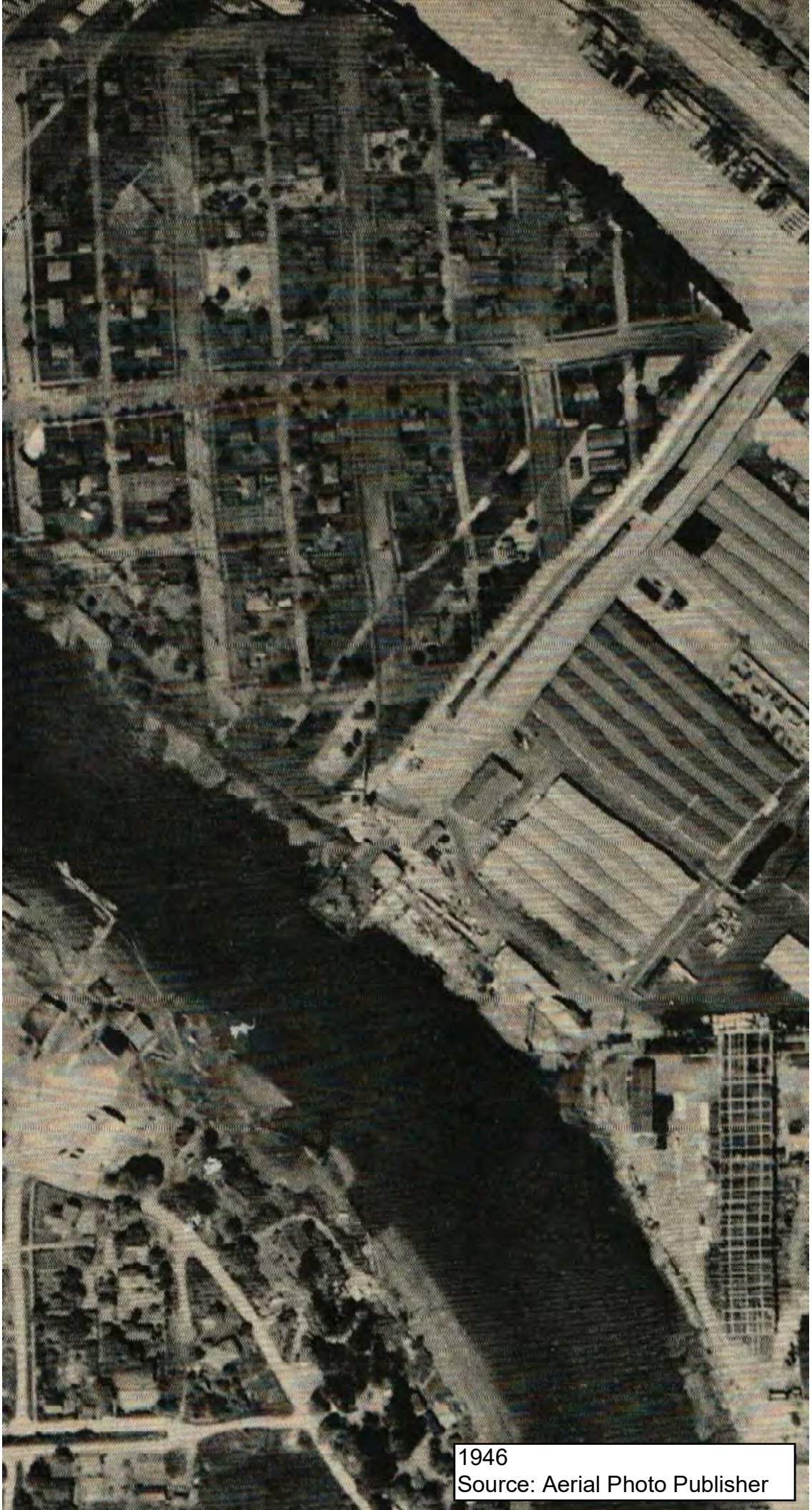


Basemap Layer Credits || King County

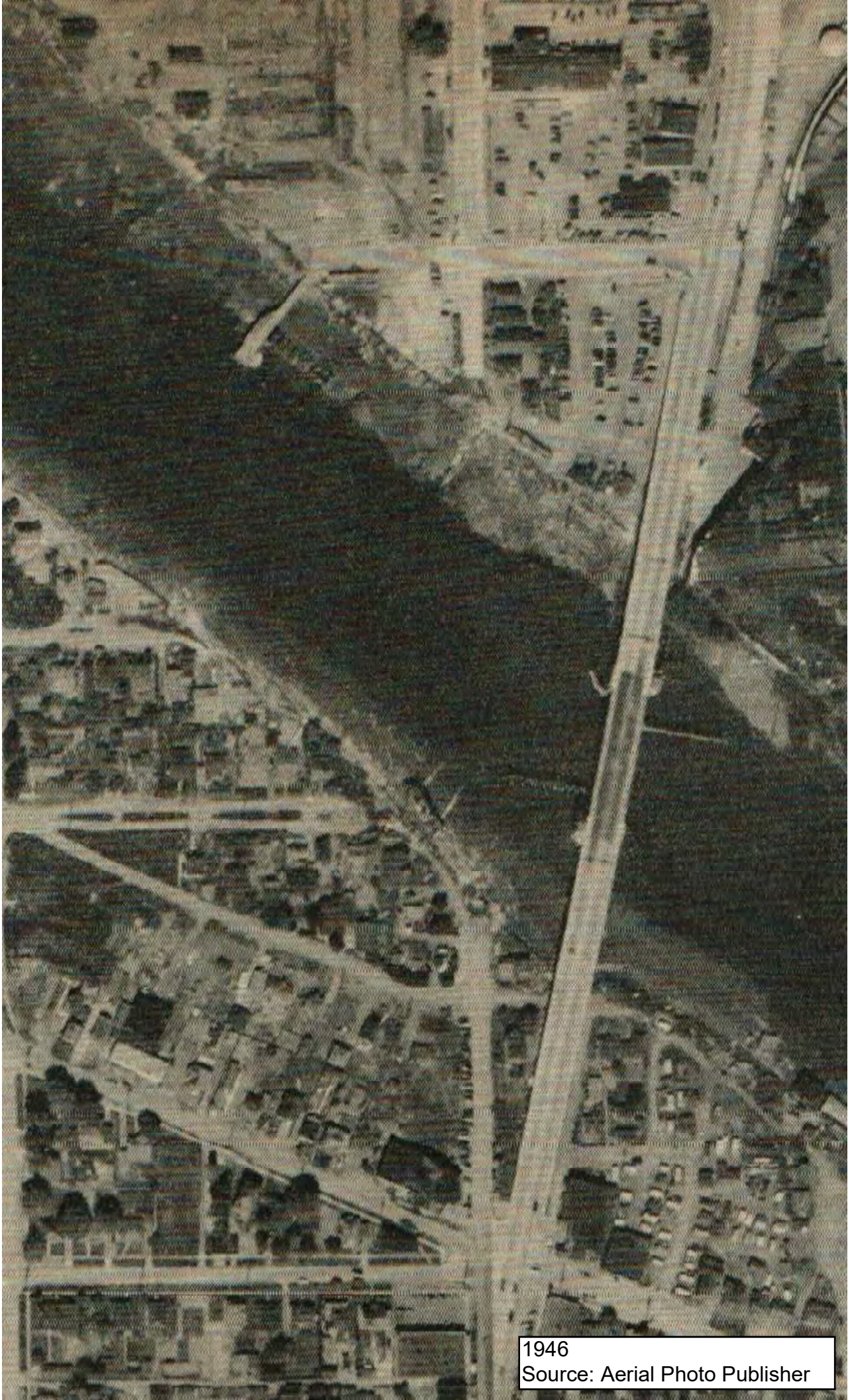

1940
Source: USGS



1940
Source: USGS



1946
Source: Aerial Photo Publisher

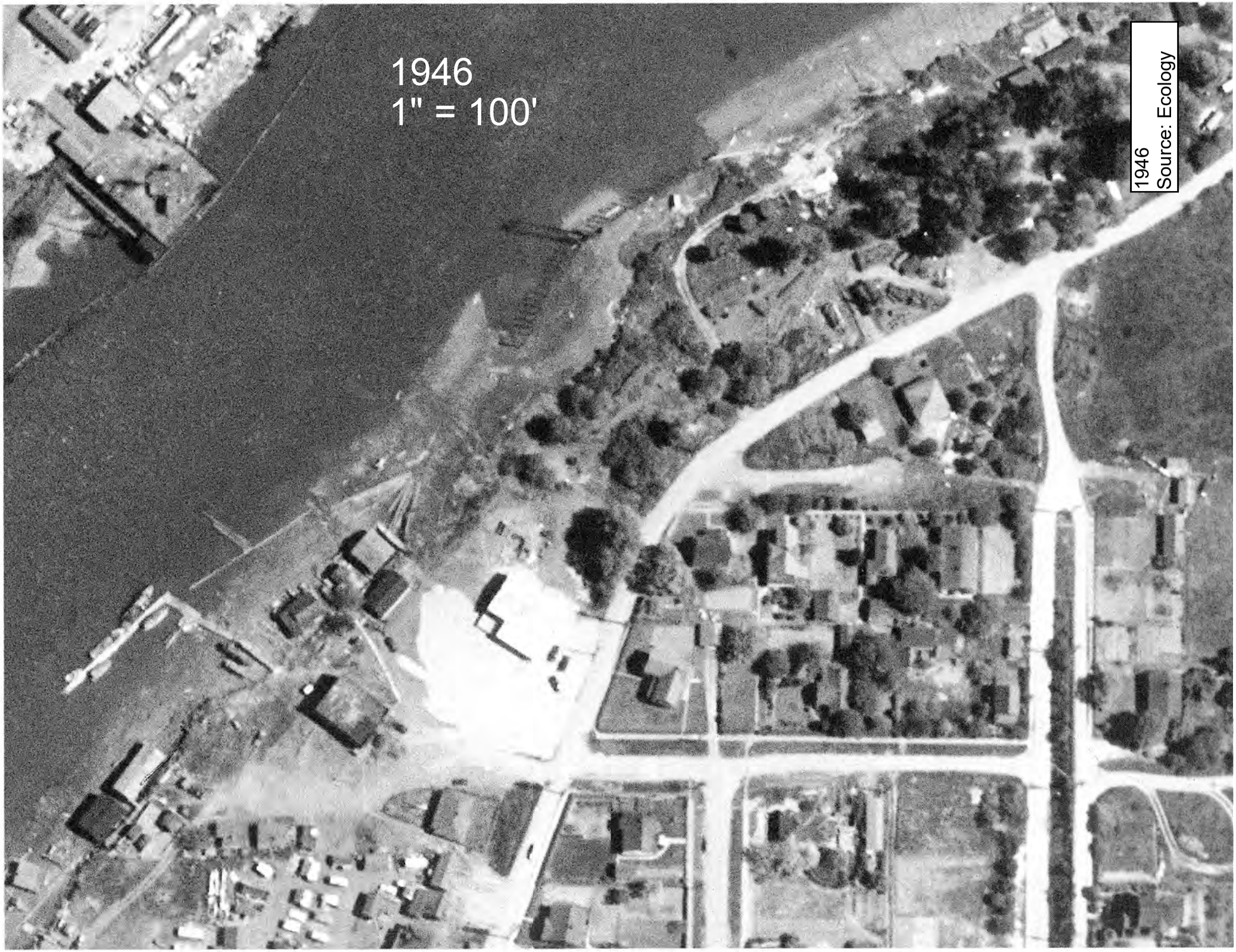


1946
Source: Aerial Photo Publisher


1946
Source: Boeing


1946
Source: Boeing

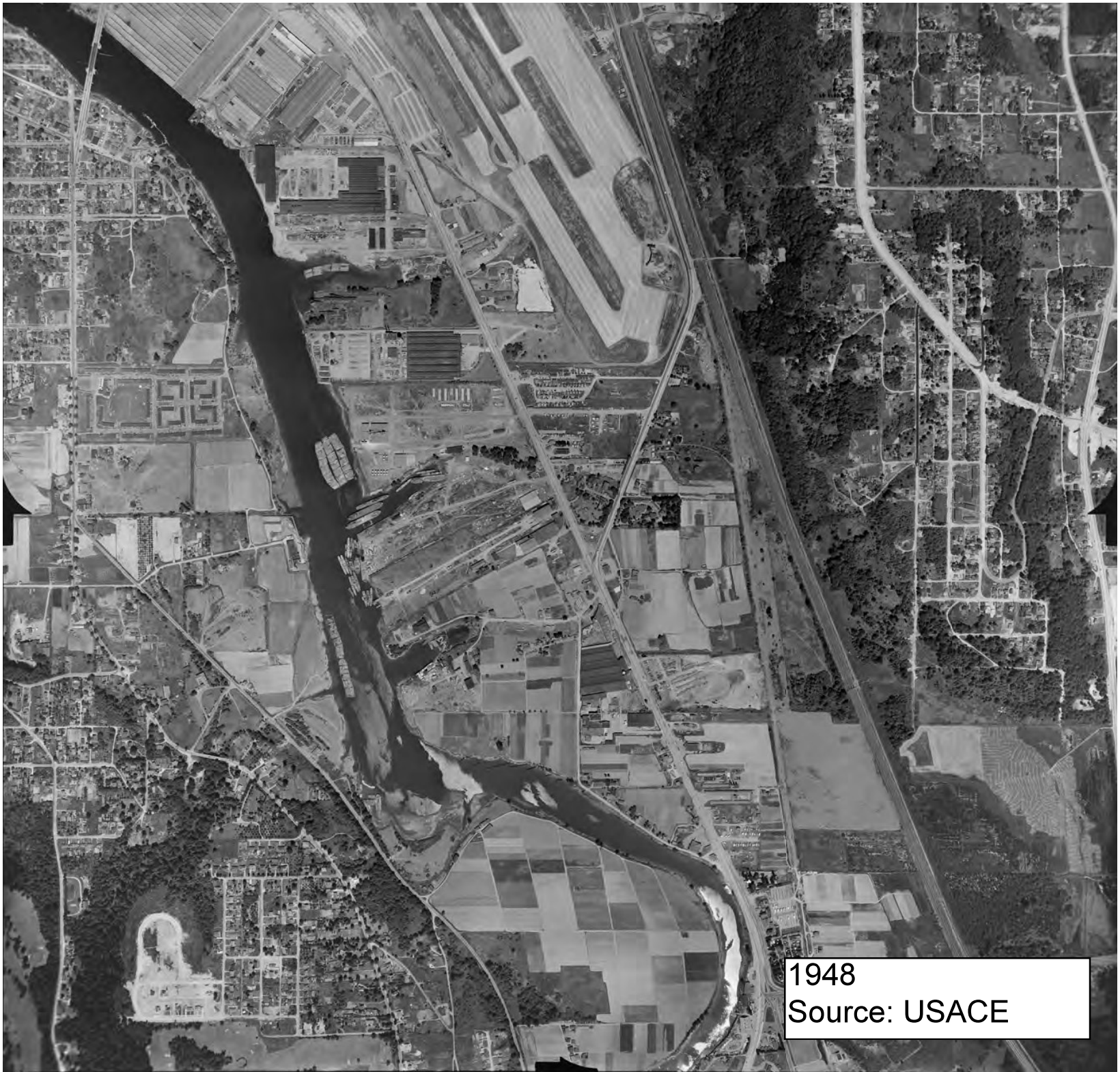

1946
Source: Boeing


1946
1" = 100'
1946
Source: Ecology


February 19, 1946
1946
Source: Ecology



1947
Source: Ecology

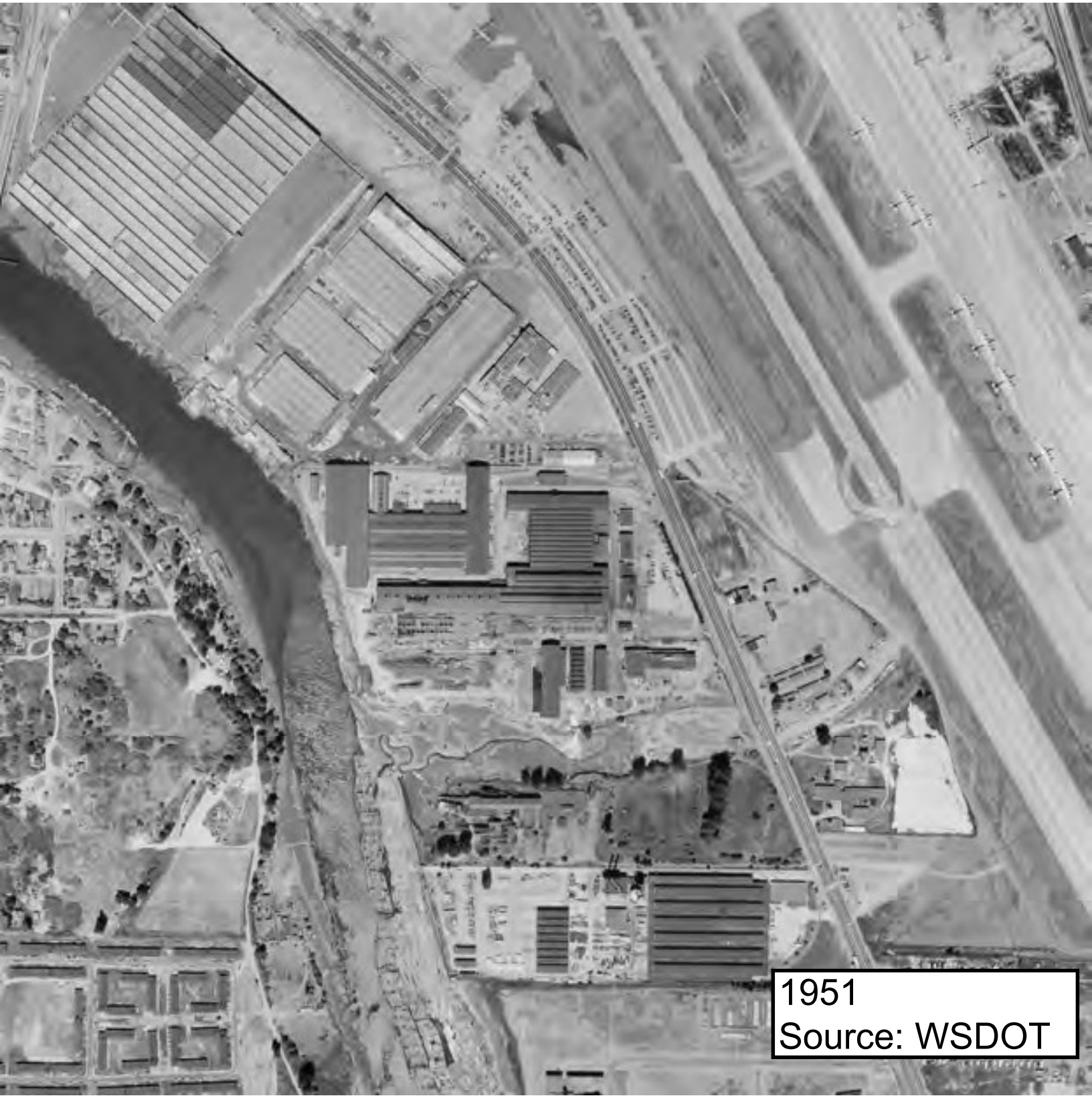

1948
Source: USACE


1948
Source: USACE



1950
Source: Boeing

1950

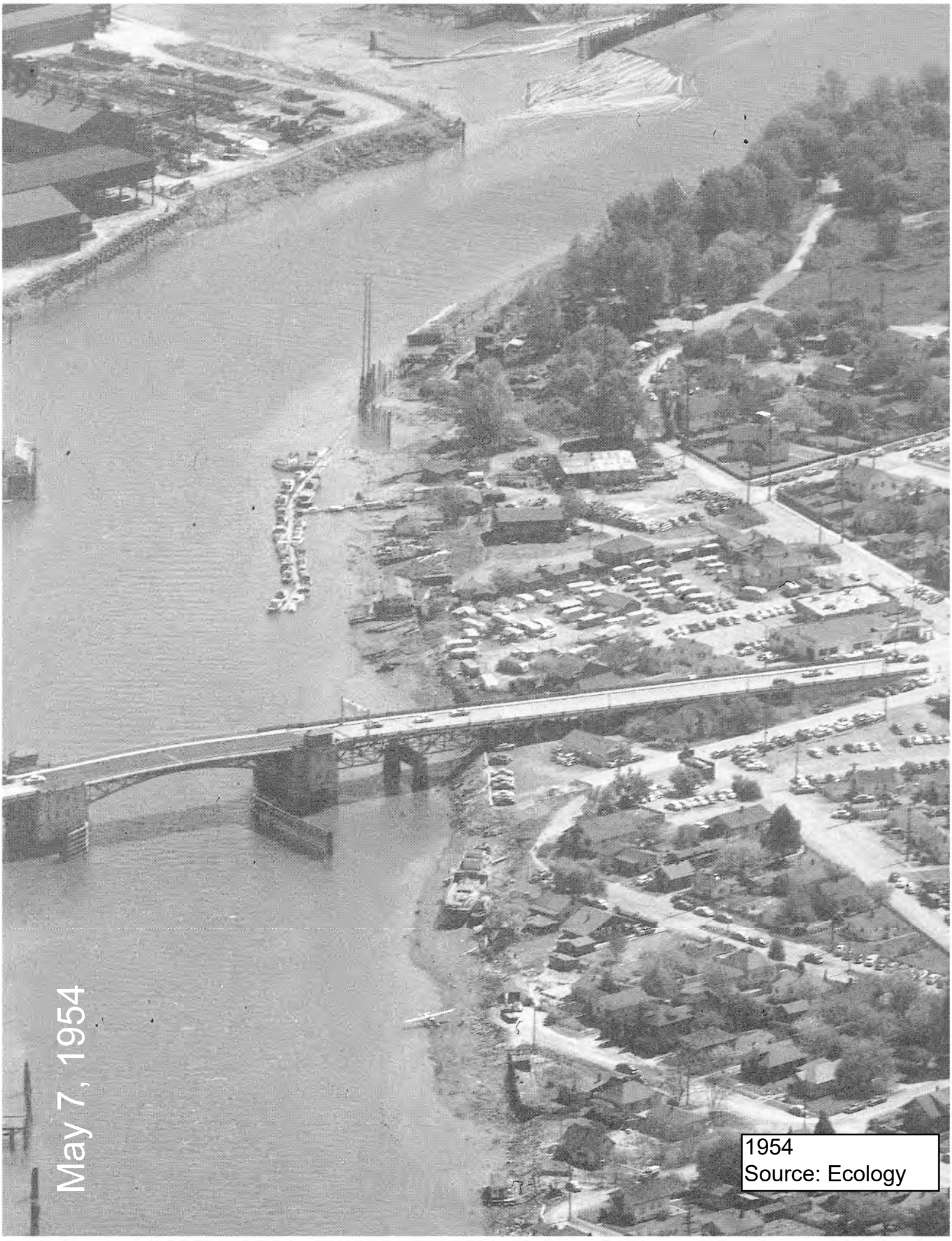

1951
Source: WSDOT


1951
Source: WSDOT

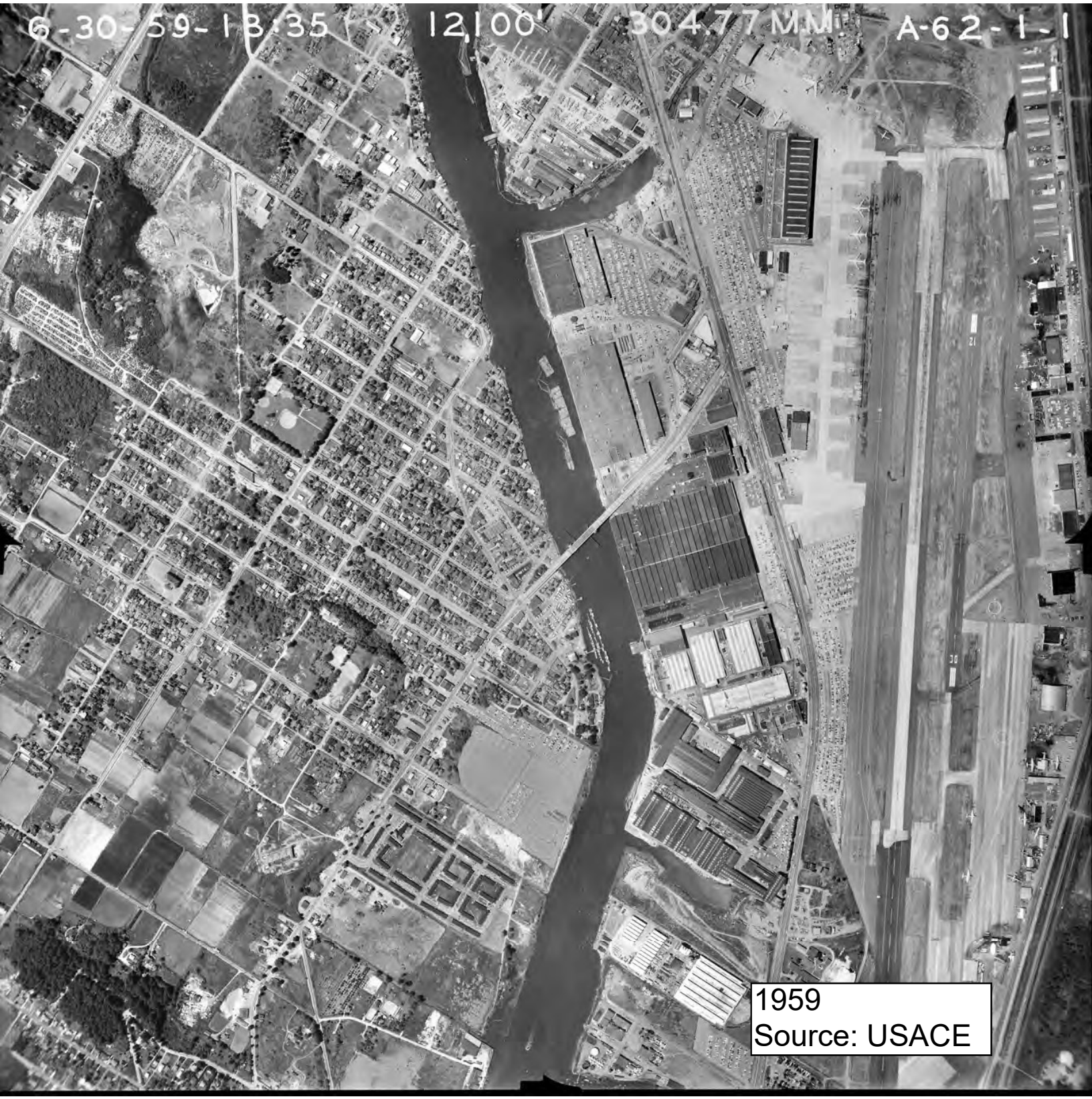

1952
Source: WA DNR


7-05-53-0- 520
1953
Source: WSDOT


1953
Source: WSDOT


May 7, 1954
1954
Source: Ecology


April 10, 1956
1" = 100'
1956
Source: Ecology



1959
Source: USACE

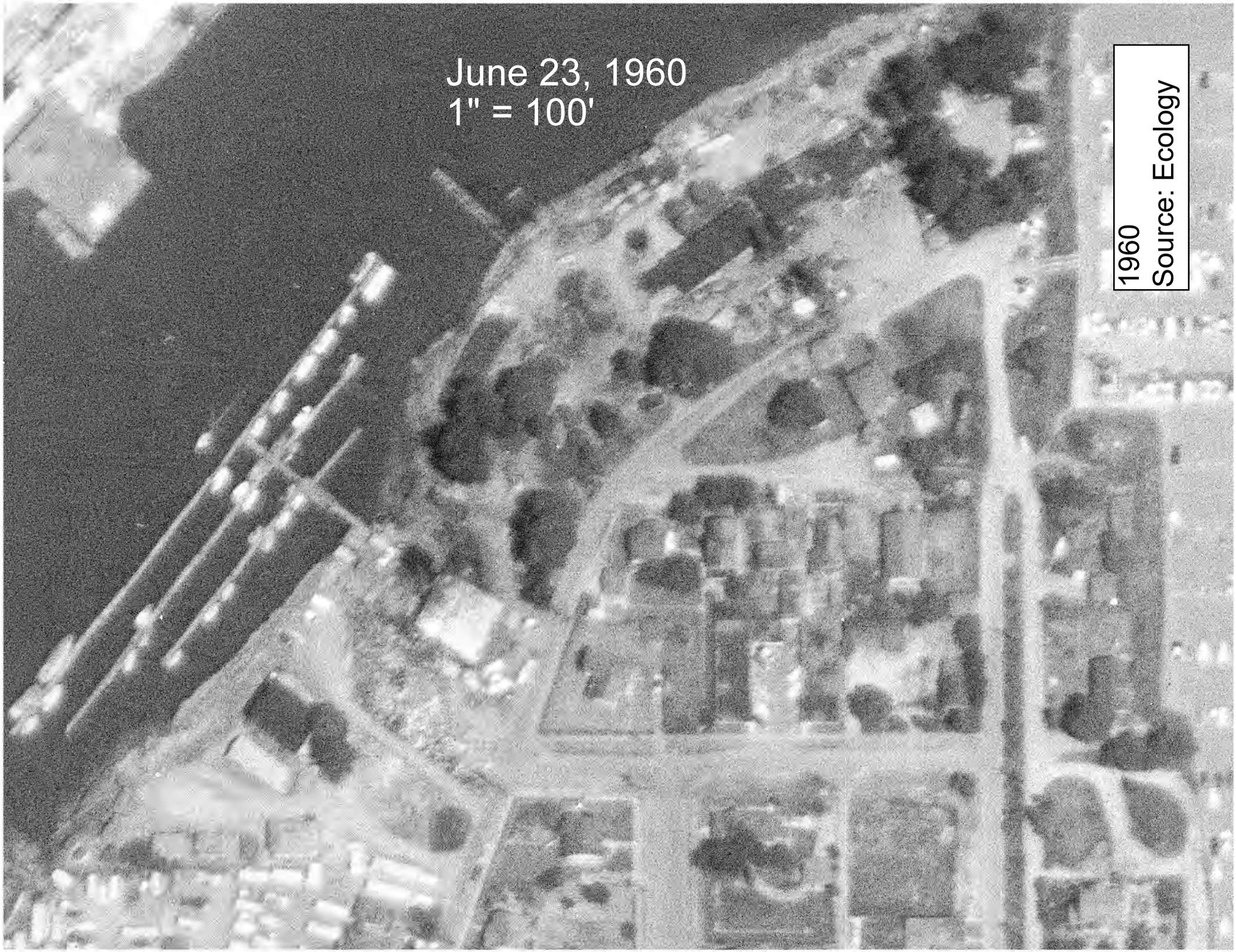

1959
Source: USACE


1959
Source: WA DNR



1960
Source: Boeing

1960


June 23, 1960
1" = 100'
1960
Source: Ecology



1961
Source: Ecology



1961
Source: Pacific Aerial Surveys


1961
Source: WA DNR


1963
Source: USGS


1963
Source: USGS


1965
Source: Pacific Aerial Surveys

1969
Source: Ecology

1969
Source: USACE

1969
Source: USACE


1970
Source: WA DNR



1972
Source: USACE

Ma h 20, 1974
1" 100'
1974
Source: Ecology



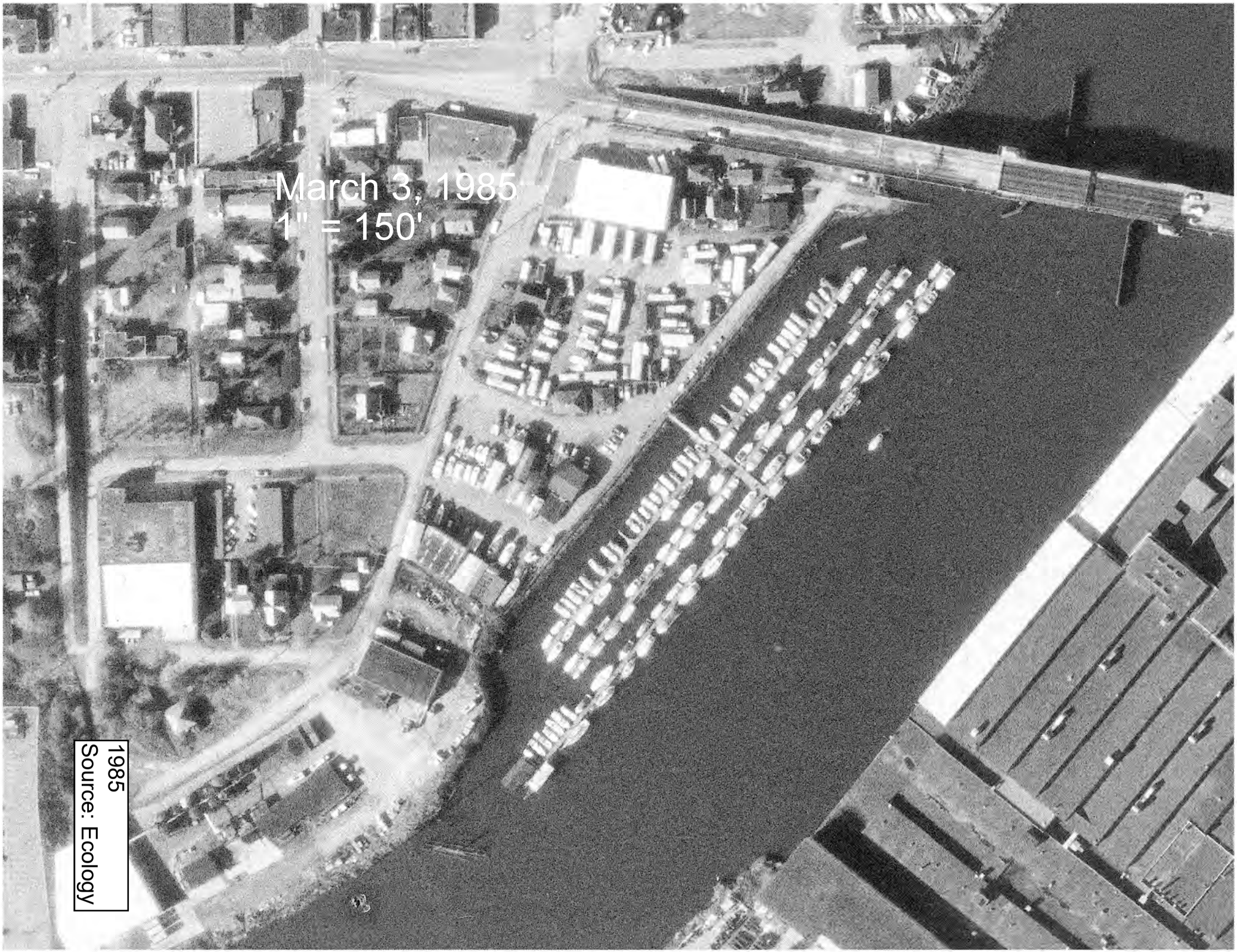
1976
Source: Port of Seattle

1976


1978
Source: WA DNR


May 4, 1980
1" = 100'
1980
Source: Ecology

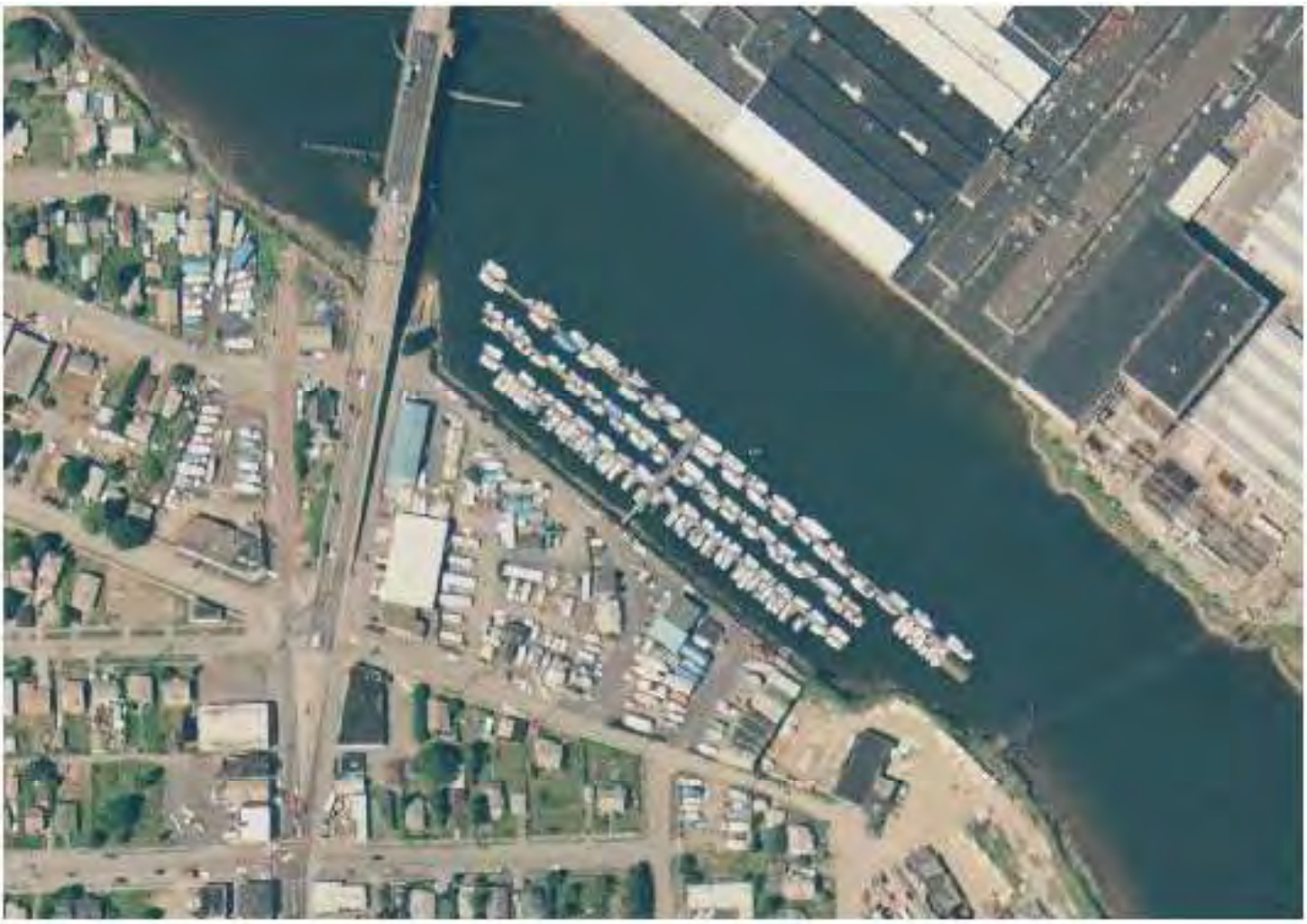
1982
Source: Ecology


March 3, 1985
1" = 150'
1985
Source: Ecology


1985
Source: WA DNR


1989
Source: USGS


1989
Source: WA DNR



1993

Source: WA DNR


2003
Source: WA DNR

APPENDIX A.2

Dredge Event Records

DEPARTMENT OF THE ARMY

CORPS OF ENGINEERS

NOTICE OF AUTHORIZATION

30 DEC 1980 19

A PERMIT TO DREDGE; DEPOSIT MATERIAL ON UPLAND AND AT A DEEP WATER SITE: CONSTRUCT BULKHEAD; PLACE RIPRAP; INSTALL FLOATS, BOAT LIFT, GANGWAY AND BOAT LAUNCH RAMP, WITH A FLOATING BOOM BARRIER (MOORAGE FOR PLEASURE CRAFT) IN DUWAMISH RIVER

AT NEAR SEATTLE, KING COUNTY, WASHINGTON

HAS BEEN ISSUED TO SOUTH PARK MARINA

ON 30 DEC 1980 **19**

ADDRESS OF PERMITTEE 8604 DALLAS AVE. SOUTH
SEATTLE, WASHINGTON 98108

PERMIT NUMBER 071-OYB-2-005557

Werner E Bayler

for LEON K. MORASKI
District Engineer
CORPS OF ENGINEERS

ENG Form 4336
Jul 70

THIS NOTICE MUST BE CONSPICUOUSLY DISPLAYED AT THE SITE OF WORK.

* GPO: 1977 232-984

INVOICE

WA STATE CONTRACTOR'S REGISTRATION NO.
223-01 GE-NE-RC 371 NO

GENERAL CONSTRUCTION COMPANY
P.O. BOX 24506 · SEATTLE, WA. 98124 · (206) 767-2344

DATE 1/30/81

INVOICE NO. 8101-0076

JOB NO. 7122 - J. Imhoff

TERMS Net

YOUR ORDER NO. Proposal dated 12/31/80

South Park Marina
Attention: Mr. W.S. Crow
8604 Dallas Avenue South
Seattle, WA 98108

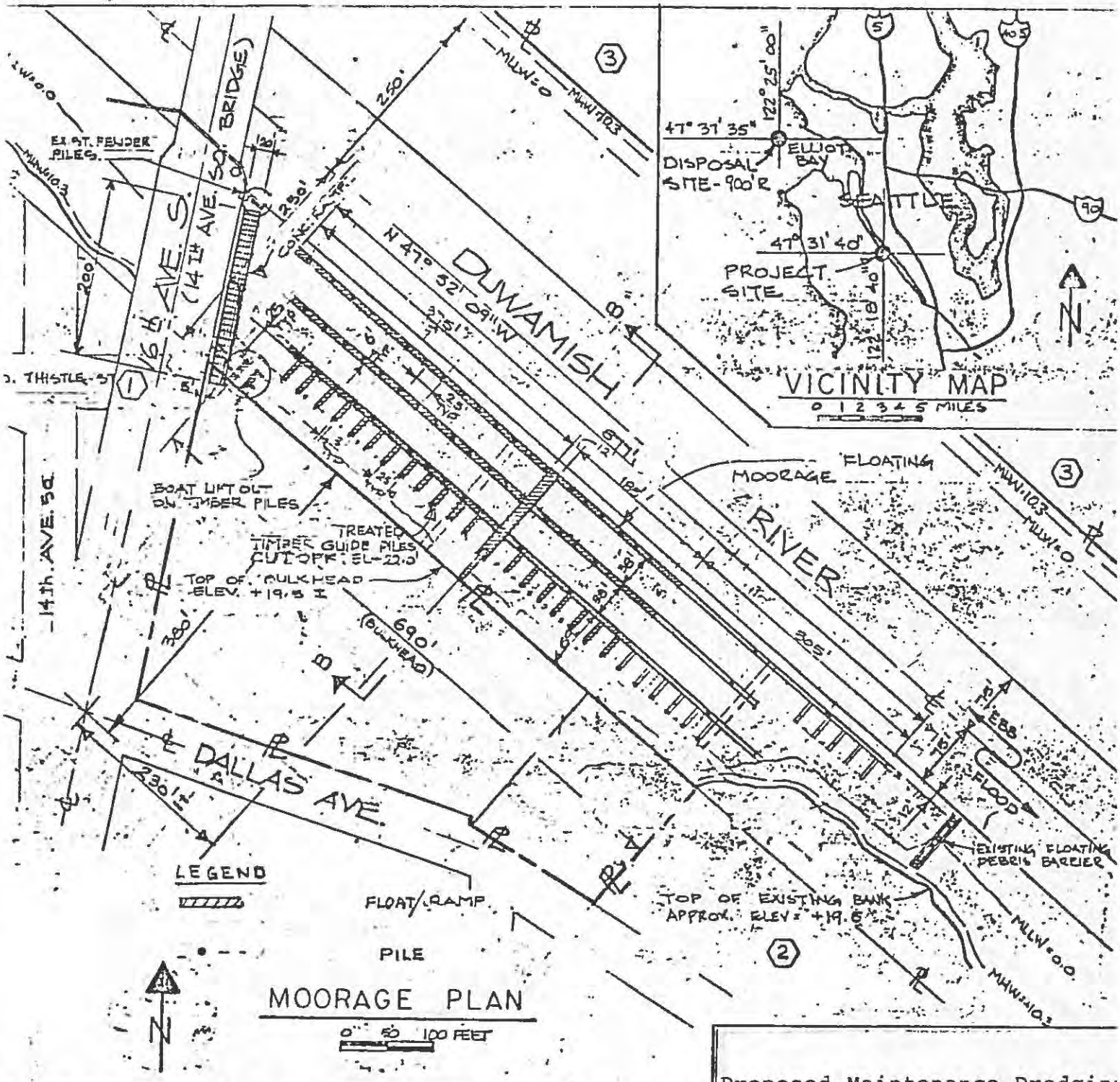
Basin construction and pile driving at South Park Marina.

Work completed thru January 31, 1981.

#1 Mobilize and Demobilize	$7,700.00 @ 25%	$ 1,925.00
#2 Dredging and Disposal	26,742 c.y. @ $2.40	64,180.00
#3 Furnish and Place Rip Rap	5,534 tons @ $12.00	66,408.00
Total Amount		$132,513.80

2/10/81 PA CK # 2565

Including Sales Tax .054%



PURPOSE: Marina - Moorage for Pleasure Craft
DATUM: Mean Lower Low Water (MLLW) = 0.0, N.O.S.
Federal Harbor Lines are not established.
Adjacent Property Owners:

① King County, State of Washington

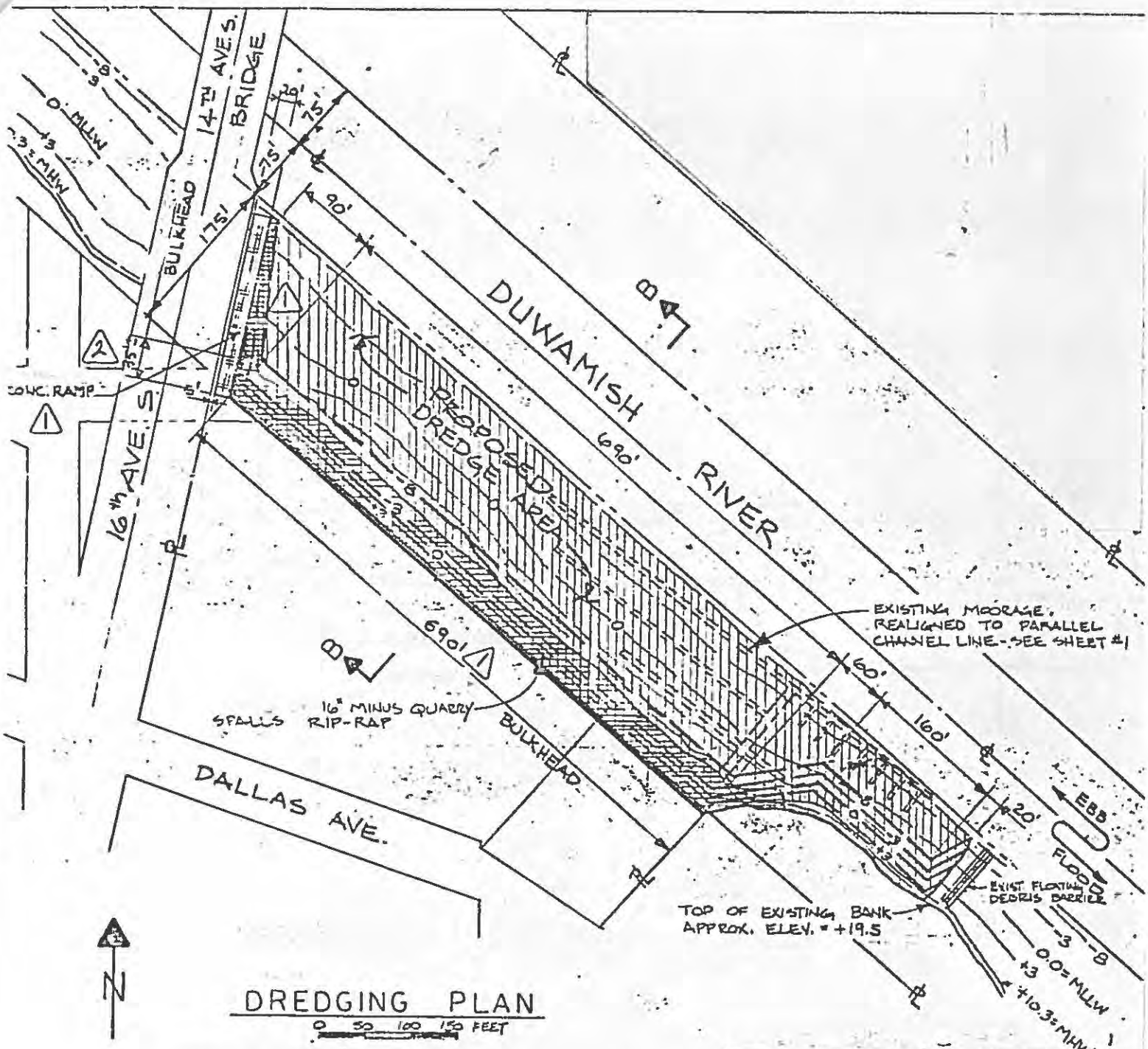
② Duwamish Manufacturing

③ The Boeing Company

Proposed Maintenance Dredging
With Deep Water Disposal

In: Duwamish River
Near: Seattle
County: King
State: Washington
By: South Park Marina
W.S. Crow, owner
Sheet 1 of 3 Date 10-24-88

RLW



DREDGING PLAN

0 50 100 150 FEET

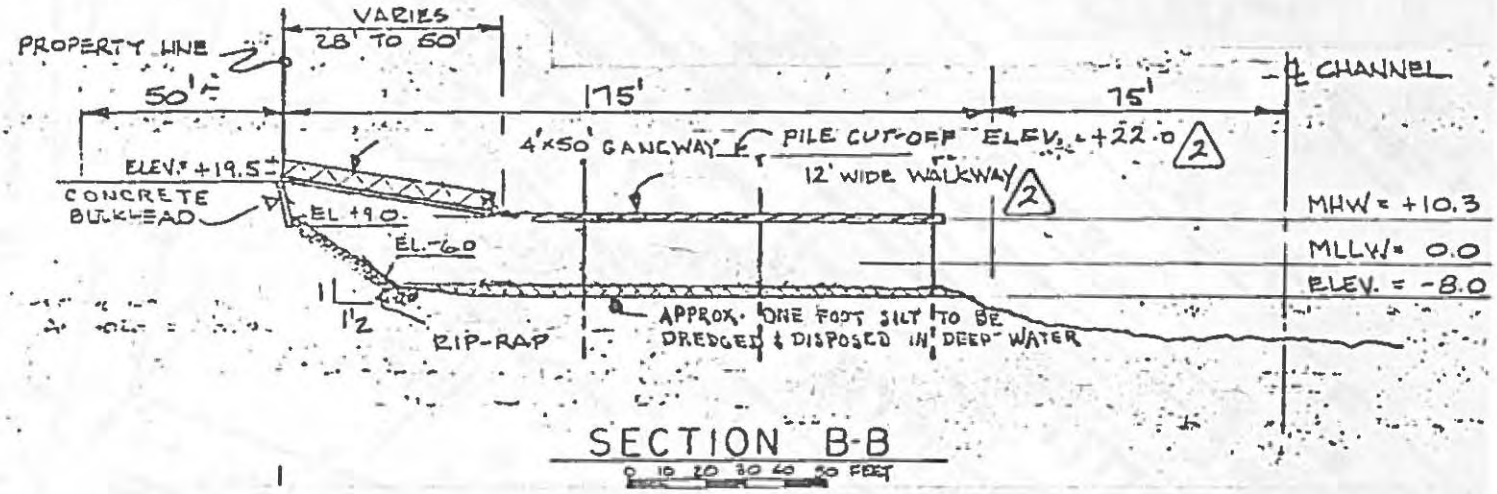
QUANTITY TAKE-OFF

1. SILT & SAND TO BE DREDGED BY SUCTION DREDGE & DISPOSED IN DEEP WATER BY BOTTOM DUMP BARGE — 4,000 cy.

2. MAINTENANCE DREDGING EACH OF NEXT 9 YEARS — 1,000 cy.

Proposed Maintenance Dredging
With Deep Water Disposal

In: Duwamish River
Near: Seattle
County: King
State: Washington
By: South Park Marina
W.S. Crow, owner
Sheet 2 of 3 Date 10-24-80



Proposed Maintenance Dredgi
With Deep Water Disposal

In: Duwamish River
Near: Seattle
County: King
State: Washington
By: South Park Marina
W.S. Crow, owner
Sheet 3 of 3 Date 10-24-80

JAY W SPEARMAN
CONSULTING ENGINEER

- MARINE
- STRUCTURAL
- ENVIRONMENTAL PERMITS

(206) 820-1739
820-1740

FAX 820-8475

12040 - 98TH AVE. NE. SUITE 200
KIRKLAND, WASHINGTON 98034

91-11

December 11, 1991

Department of the Army
Seattle District, Corps of Engineers
P.O. Box C-3755
Seattle, Washington 98124-2255

Attention: Mr. David Fox
DAIS Submission Department

Subject: South Park Marina Dredging
OYB-2-012574

Gentlemen:

We hereby enclose the DAIS data disks (3), and North Creek Analytical chemistry report for subject project. We ask that you review this material in advance of submission of the formal report from our office. Please refer to Jay's memo attached to the report.

We disclaim responsibility for the correctness of the data provided. We have transcribed the data furnished by our consultants who were unable or unwilling to provide this information in the require format. The original laboratory reports remain the true factual basis on which to make the PSDDA management decisions.

Very truly yours,

Jay W. Spearman, Consulting Engineer

JWS/lms

wp/1991-05/fox2

This notice of authorization must be conspicuously displayed at the site of work.

United States Army Corps of Engineers

FEB 25 1992

A permit to OVER A 10-YEAR PERIOD, DREDGE 17,000 CUBIC YARDS OF BOTTOM MATERIAL FROM A 1.6-ACRE MARINA BASIN. DREDGE 8,000 CUBIC YARDS THE FIRST YEAR, 4,000 CUBIC YARDS THE FIFTH YEAR, AND 5,000 CUBIC YARDS IN THE TENTH YEAR. HYDRAULIC EQUIPMENT AND A DUMP SCOW WOULD BE UTILIZED, AND MATERIAL WOULD BE DISPOSED OF AT THE ELLIOTT BAY PSDDA OPEN-WATER DISPOSAL SITE (RESTORE AND MAINTAIN ADEQUATE ANCHORAGE DEPTH AT AN EXISTING COMMERCIAL MARINA).

19

at IN THE DUWAMISH RIVR NEAR SEATTLE, WASHINGTON

has been issued to SOUTH PARK MARINA (GUY CROW) **on** 25 FEB **19** 92

Address of Permittee 8604 DALLAS AVENUE SOUTH, SEATTLE, WASHINGTON 98108

Permit Number

NWB-2-012574

District Commander
WALTER J. CUNNINGHAM
COLONEL, CORPS OF ENGINEERS

ENG FORM 4336 , Jul 81 (ER 1145-2-303) EDITION OF JUL 70 MAY BE USED *(Proponent: DAEN-CWO)*

A. H. POWERS CO.

5800 40TH AVENUE WEST • SEATTLE, WASHINGTON 98199 • PHONE (206) 283-9996

MESSAGE	REPLY
TO SOUTH PARK MARINA	RE: MARINA DREDGING
DATE 7 MARCH 1992	
INVOICE:	
1) MOB/DEMOB	$ 18,000.00
2) DREDGE & DISPOSAL 1488, 1421, 1358, 1421 = 5688 CY @ 6.42 CLAM EXCAV.	36516.96
3) SPUD BARGE & DUMP SCOW RENT 4 DAY @ 1500	6000.00
4) DUMP HYDRAULIC DREDGE SPOIL 1 TRIP	750.00
TOTAL	61266.96
WSST 8.2%	5023.89
TOTAL INVOICE	$ 66290.85
BY	SIGNED

Item # NR73 The Drawing Board, Dallas, Texas 75266-0429
© Wheeler Group, Inc., 1982

INSTRUCTIONS TO SENDER:
1. KEEP YELLOW COPY. 2. SEND WHITE AND PINK COPIES INTACT.

INSTRUCTIONS TO RECEIVER:
1. WRITE REPLY. 2. DETACH STUB, KEEP PINK COPY, RETURN WHITE COPY TO SENDER.

STATEMENT

INDUSTRIAL POND SERVICES INC.
P. O. Box 1211
LONGVIEW, WA 98632

Fed ID# 91-1081084
(206) 577-8229

DATE: March 24, 1992
NUMBER: 15340 Job#0268

South Park Marina
8604 Dallas Ave. South
Seattle, WA 98108

RE: South Park Marina

They suction dreadged a portion of the marina.

TERMS: Net 15

PLEASE DETACH AND RETURN WITH YOUR REMITTANCE $_____

CHARGES & CREDITS	BALANCE	
BALANCE FORWARD ▶		
Revised from invoice 15338 on 3/10/92		
Mobilize/Demobilize	$3,950	00
Alum Infection	$750	00
Personnel & Equipment 93 hrs @ $145.00	$13,775	00
Per Diem $60/man day x 22 man days	$1,320	00
	$19,795	00
WA Sales Tax @ 8.2%	$1,623	19
TOTAL THIS INVOICE	$21,418	19

Thank You

PAY LAST AMOUNT IN THIS COLUMN

INDUSTRIAL POND SERVICES INC.

SPEARMAN ENGINEERING, PS
P.O. Box 230, Bremerton, WA 98337
Phone: (360) 377-1630 Fax: (360) 377-1636
Toll Free Phone: 1-877-777-1630

. MARINE DESIGN/INSPECTION
. STRUCTURAL ENGINEERING
. ENVIRONMENTAL PERMITS

FAX TRANSMISSION SHEET

TO: South Park Marina	DATE: 11/21/3
ATTN: Guy Crow	TIME:
FAX NO: 206-767-3066	JOB NO: 03-08
FROM: Jay Spearman	PAGE 1 OF: 2

MESSAGE:

Guy:

Please sign this last page of the application. Sign above & below my signature.

Then fax me a copy & send the original in the mail to me.

I will return to you by mail a complete copy of the application.

— Jay

☐ Hard Copy via Mail ☐ Please Respond ☐ For Your Information

SECTION B - Use for Shoreline and Corps of Engineers permits only:

*7a. TOTAL COST OF PROJECT: THIS MEANS THE FAIR MARKET VALUE OF THE PROJECT, INCLUDING MATERIALS, LABOR, MACHINE RENTALS, ETC.

*7b. IF A PROJECT OR ANY PORTION OF A PROJECT RECEIVES FUNDING FROM A FEDERAL AGENCY, THAT AGENCY IS RESPONSIBLE FOR ESA CONSULTATION. PLEASE INDICATE IF YOU WILL RECEIVE FEDERAL FUNDS AND WHAT FEDERAL AGENCY IS PROVIDING THOSE FUNDS. SEE INSTRUCTIONS FOR INFORMATION ON ESA**

FEDERAL FUNDING ☐ YES ☒ NO IF YES, PLEASE LIST THE FEDERAL AGENCY _____

18. LOCAL GOVERNMENT WITH JURISDICTION:
King County

19. FOR CORPS, COAST GUARD, AND DNR PERMITS, PROVIDE NAMES, ADDRESSES, AND TELEPHONE NUMBERS OF ADJOINING PROPERTY OWNERS, LESSEES, ETC.,
PLEASE NOTE: SHORELINE MANAGEMENT COMPLIANCE MAY REQUIRE ADDITIONAL NOTICE — CONSULT YOUR LOCAL GOVERNMENT

NAME	ADDRESS	PHONE NUMBER
Port of Seattle	P.O. Box 1209, Seattle WA 98504	(206) 723-3291
King County	Attn. Tim Larve King County Road Service Division 201 S. Jackson St. Seattle WA 98104	(206) 296-6530
City of Seattle	Seatrans, 600 4th Ave. Rm 410 Seattle, WA 98104	(206) 684-7623

SECTION C - This section MUST be completed for any permit covered by this application

20. APPLICATION IS HEREBY MADE FOR A PERMIT OR PERMITS TO AUTHORIZE THE ACTIVITIES DESCRIBED HEREIN. I CERTIFY THAT I AM FAMILIAR WITH THE INFORMATION CONTAINED IN THIS APPLICATION, AND THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, SUCH INFORMATION IS TRUE, COMPLETE, AND ACCURATE. I FURTHER CERTIFY THAT I POSSESS THE AUTHORITY TO UNDERTAKE THE PROPOSED ACTIVITIES. I HEREBY GRANT TO THE AGENCIES TO WHICH THIS APPLICATION IS MADE, THE RIGHT TO ENTER THE ABOVE-DESCRIBED LOCATION TO INSPECT THE PROPOSED, IN-PROGRESS OR COMPLETED WORK. I AGREE TO START WORK ONLY AFTER ALL NECESSARY PERMITS HAVE BEEN RECEIVED.

SIGNATURE OF APPLICANT _____ DATE 11/21/03

SIGNATURE OF AUTHORIZED AGENT _____ DATE 11/21/03

I HEREBY DESIGNATE _____ TO ACT AS MY AGENT IN MATTERS RELATED TO THIS APPLICATION FOR PERMIT(S). I UNDERSTAND THAT IF A FEDERAL PERMIT IS ISSUED, I MUST SIGN THE PERMIT

SIGNATURE OF APPLICANT _____ DATE 11/21/03

SIGNATURE OF LANDOWNER (EXCEPT PUBLIC ENTITY LANDOWNERS, E.G. DNR)

THIS APPLICATION MUST BE SIGNED BY THE APPLICANT AND THE AGENT, IF AN AUTHORIZED AGENT IS DESIGNATED.

18 U.S.C. §1001 provides that: Whoever, in any manner within the jurisdiction of any department or agency of the United States knowingly falsifies, conceals, or covers up by any trick, scheme, or device a material fact or makes any false, fictitious, or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious, or fraudulent statement or entry, shall be fined not more than $10,000 or imprisoned not more than 5 years or both.

COMPLETED BY LOCAL OFFICIAL

A. Nature of the existing shoreline. (Describe type of shoreline, such as marine, stream, lake, lagoon, marsh, bog, swamp, flood plain, floodway, delta; type of beach, such as accretion, erosion, high bank, low bank, or dike; material such as sand, gravel, mud, clay, rock, riprap; and extent and type of bulkheading, if any)

B. In the event that any of the proposed buildings or structures will exceed a height of thirty-five feet above the average grade level, indicate the approximate location of and number of residential units, existing and potential, that will have an obstructed view.

C. If the application involves a conditional use or variance, set forth in full that portion of the master program which provides that the proposed use may be a conditional use, or, in the case of a variance, from which the variance is being sought.

These Agencies are Equal Opportunity and Affirmative Action employers.
For special accommodation needs, please contact the appropriate agency in the instructions.

SECTION B - Use for Shoreline and Corps of Engineers permits only:

17a. TOTAL COST OF PROJECT. THIS MEANS THE FAIR MARKET VALUE OF THE PROJECT, INCLUDING MATERIALS, LABOR, MACHINE RENTALS, ETC.

17b. IF A PROJECT OR ANY PORTION OF A PROJECT RECEIVES FUNDING FROM A FEDERAL AGENCY, THAT AGENCY IS RESPONSIBLE FOR ESA CONSULTATION. PLEASE INDICATE IF YOU WILL RECEIVE FEDERAL FUNDS AND WHAT FEDERAL AGENCY IS PROVIDING THOSE FUNDS. SEE INSTRUCTIONS FOR INFORMATION ON ESA**

FEDERAL FUNDING ☐ YES ☒ NO IF YES, PLEASE LIST THE FEDERAL AGENCY _____

18. LOCAL GOVERNMENT WITH JURISDICTION:
King County

19. FOR CORPS, COAST GUARD, AND DNR PERMITS, PROVIDE NAMES, ADDRESSES, AND TELEPHONE NUMBERS OF ADJOINING PROPERTY OWNERS, LESSEES, ETC...
PLEASE NOTE: SHORELINE MANAGEMENT COMPLIANCE MAY REQUIRE ADDITIONAL NOTICE — CONSULT YOUR LOCAL GOVERNMENT.

NAME	ADDRESS	PHONE NUMBER
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SIGNATURE OF APPLICANT	DATE
SIGNATURE OF AUTHORIZED AGENT	DATE 11/21/03

DATE

I HEREBY DESIGNATE
TO ACT AS MY AGENT IN MATTERS RELATED TO THIS APPLICATION FOR PERMIT(S). I UNDERSTAND THAT IF A FEDERAL PERMIT IS ISSUED, I MUST SIGN THE PERMIT.

_____
SIGNATURE OF APPLICANT DATE

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COMPLETED BY LOCAL OFFICIAL

A. Nature of the existing shoreline. (Describe type of shoreline, such as marine, stream, lake, lagoon, marsh, bog, swamp, flood plain, floodway, delta; type of beach, such as accretion, erosion, high bank, low bank, or dike; material such as sand, gravel, mud, clay, rock, riprap; and extent and type of bulkheading, if any)

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C. If the application involves a conditional use or variance, set forth in full that portion of the master program which provides that the proposed use may be a conditional use, or, in the case of a variance, from which the variance is being sought:

These Agencies are Equal Opportunity and Affirmative Action employers.
For special accommodation needs, please contact the appropriate agency in the instructions.

South Park Marine Maintenance Dredge

USACE PN #2003-

Best Management Practices

November, 21 2003

These BMPs are intended to 1) improve accuracy of the dredging operation, both as to boundaries of the dredge area and depth of dredging, 2) minimize sediment disturbance and turbidity during dredging and dewatering, and 3) specify disposal method of dredged material.

1. Permit Conditions

   A. All permit conditions shall be complied with.

   B. Contractor shall be provided copies of permits in advance of mobilization to site.

   C. Project engineer, or his representative, shall be on site during dredging to monitor permit compliance.

2. Dredge Depth and Positioning.

   A. Contractor shall be provided a current bathymetry survey drawing that should best represent the bathymetry of the site.

   B. Project engineer shall provide plans showing project corners and bathymetry indicating the proscribed dredge depth.

   C. Dredge supervisor will use GPS or beach survey points to locate project corners. Position of equipment will be re-checked as frequently as necessary to assure work does not extend beyond permitted plan area or depth. Horizontal accuracy of the GPS will also be checked.

   D. To assure that removed material does not exceed approved dredge depth clamshell control cables shall be marked with highly visible paint to guide the dredge operator. Standard dredge tolerance is maximum one foot overdredge.

   E. Dredge operator shall regularly check tide boards and make any necessary changes to operation in order to compensate for changes in tidal elevation.

   F. Dredge operator shall take care not to exceed authorized dredge cut depth or disturb native sediment. Clamshell bucket shall not disturb native sediment.

   G. Accuracy of dredging is more important than the speed of material removal.

H. Post dredge bathymetry will be conducted to provide condition drawing and possibly calculate volume of material removed.

3. Control of Sediment Disturbance and Turbidity.

A. With each grab of the clamshell, dredge material shall be completely removed and material placed on the deck barge. Bucket shall make a complete cycle with each pass of the bucket. The clamshell bucket will not be dragged over the bottom to level the cut.

B. Deck barge will have fences to contain dredge material. These may be either barge structure or concrete ecology blocks. Hay bales with filter fabric shall be installed to serve as filters wherever fence is not watertight.

C. Dredge operator shall lift bucket slowly to facilitate maximum dewatering of the bucket near the water surface to avoid plunging as bucket is raised to deck.

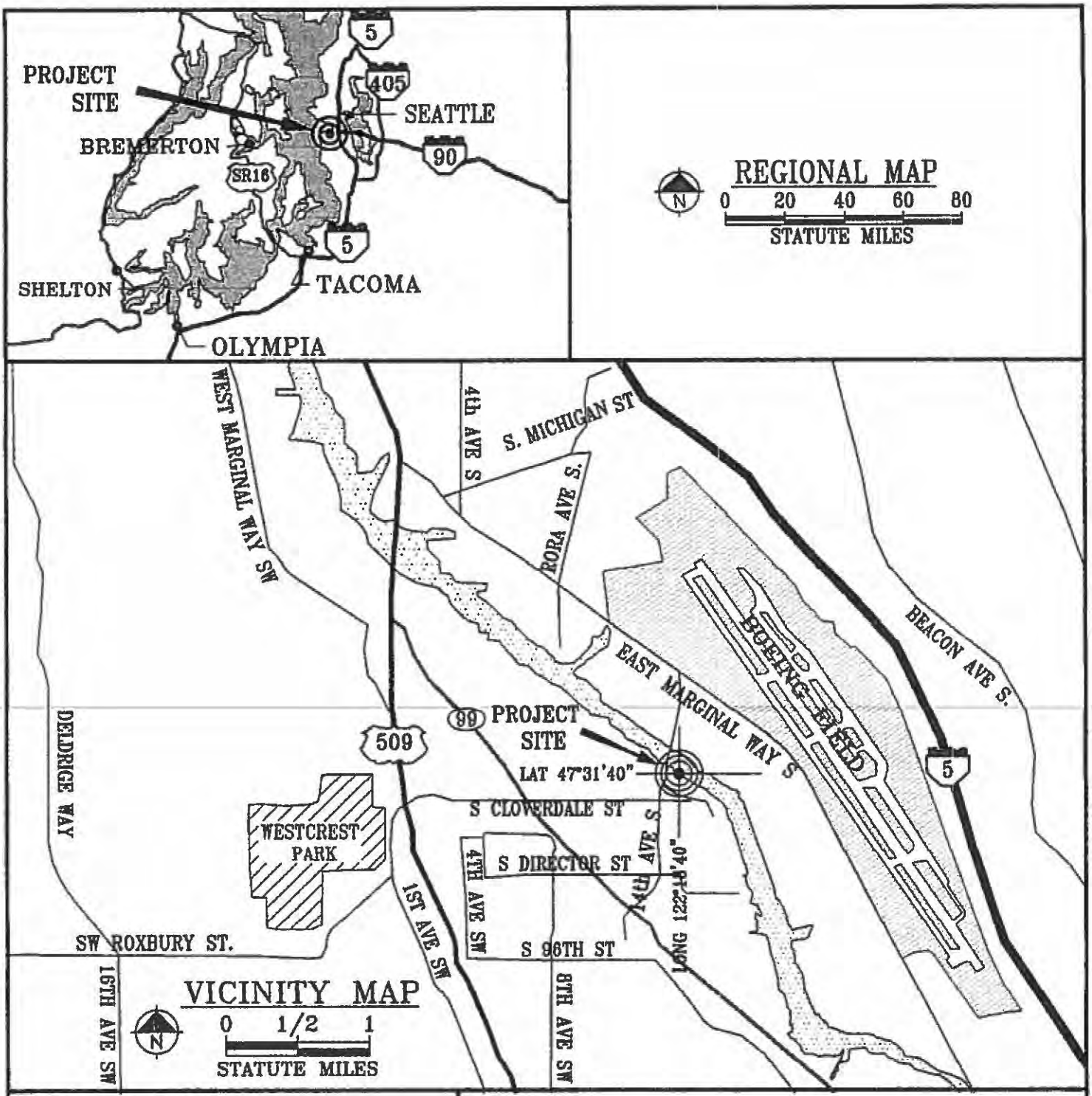
D. Due to the granular nature of the dredge material, it is not expected that sediments will adhere to the bucket. However, if the dredge supervisor observes that sediments are adhering to the bucket, the bucket shall be rinsed in a tank after each grab/dump cycle. The tank may be constructed of wood, hay bales or concrete ecology blocks and lined with plastic on the deck of the barge. Sediment residue collected in the rinse tank will be settled out and disposed of along with the dredged material as described below.

4. Transfer and Disposal of Dredged Material

A. All dredged material, gravel or fine-grained sediments, once removed from the water, shall not be returned to the water.

B. Dredged material shall be dewatered on the deck barge prior to transferring to the disposal site, unless otherwise approved by project engineer or his on-site representative.

C. Dredged material shall be transferred by clamshell to deck barge for disposal at the Elliott Bay PSSDA deepwater disposal site.



NAME: South Park Marina
PURPOSE: Maintain existing recreational facility

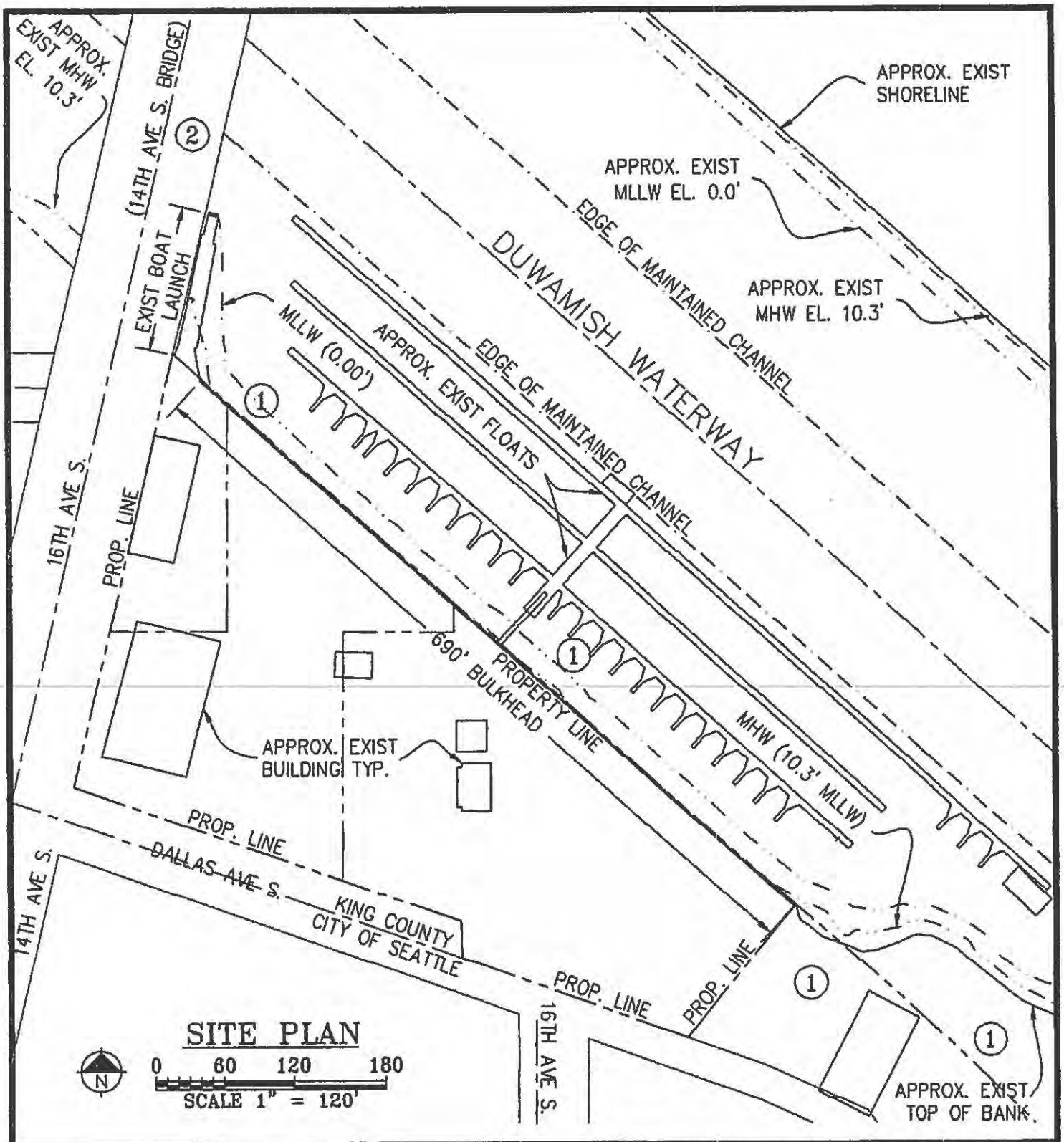
DATUM: MLLW

ADJACENT PROPERTY OWNERS
1. Port of Seattle
2. King County / City of Seattle

PROJECT #:
REFERENCE #:
PROPOSED: Maintenance dredge existing boat basin by clamshell for disposal at Anderson Island PSDDA deep water disposal site.

IN: Duwamish Waterway, Duwamish River NEAR: Seattle
COUNTY: King

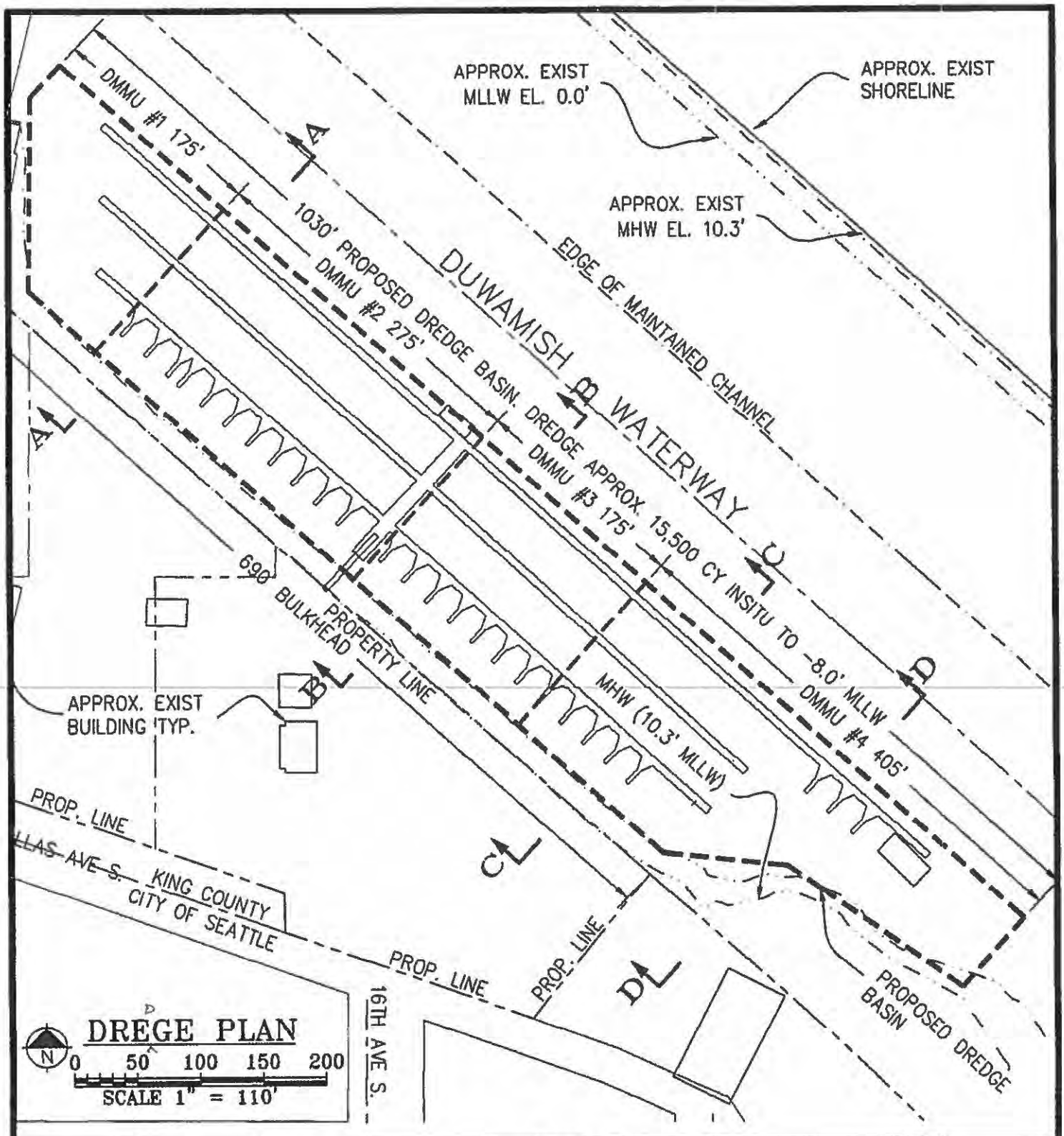
SHEET 1 OF 6 DATE: 9/9/2003



NAME: South Park Marina
PURPOSE: Maintain existing recreational facility
DATUM: MLLW

PROJECT #:
REFERENCE #:
IN: Duwamish Waterway, Duwamish River NEAR: Seattle
COUNTY: King

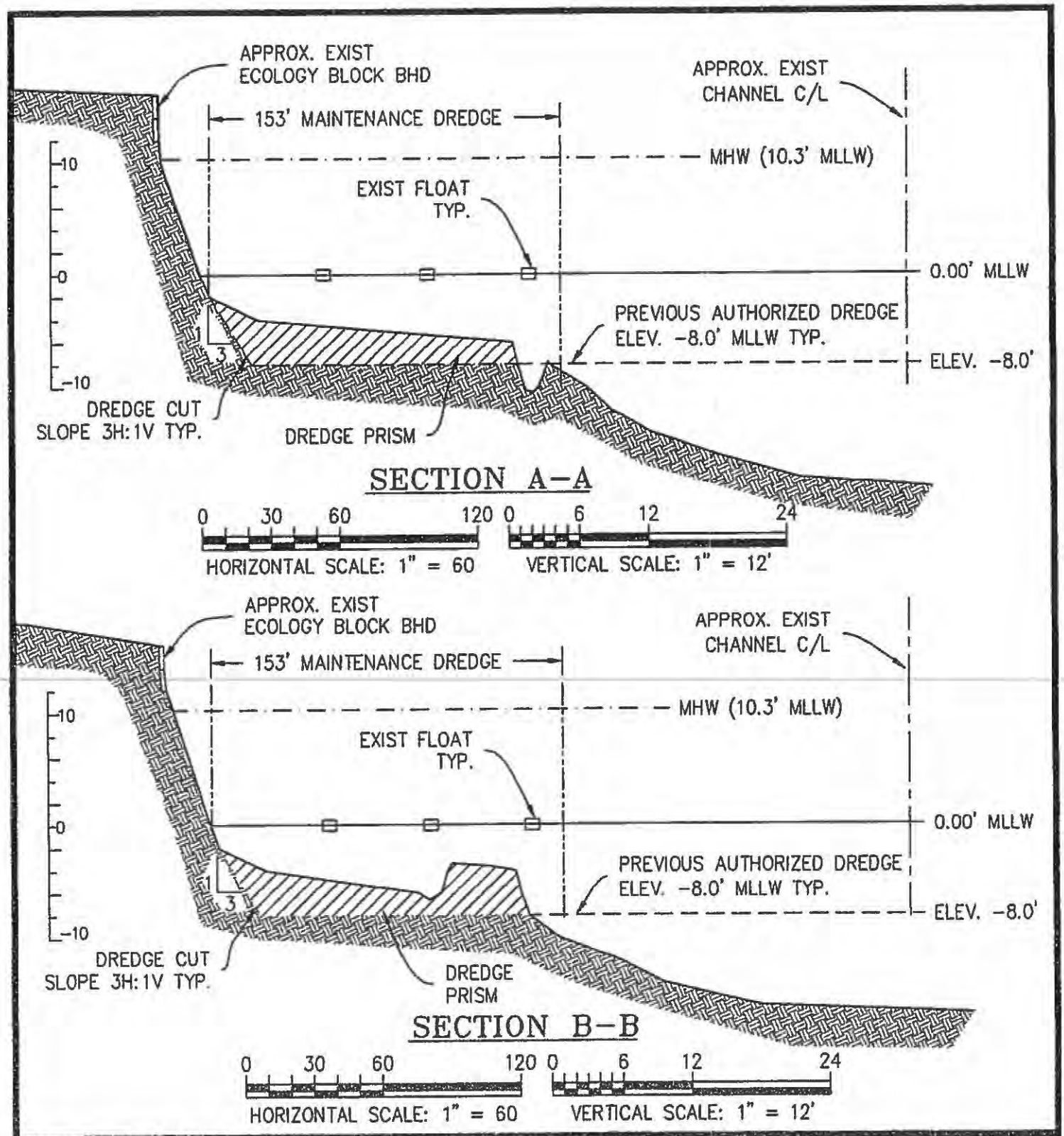
SHEET 2 OF 6 DATE: 9/9/2003



NAME: South Park Marina
PURPOSE: Maintain existing recreational facility
DATUM: MLLW

PROJECT #:
REFERENCE #:
IN: Duwamish Waterway, Duwamish River NEAR: Seattle
COUNTY: King

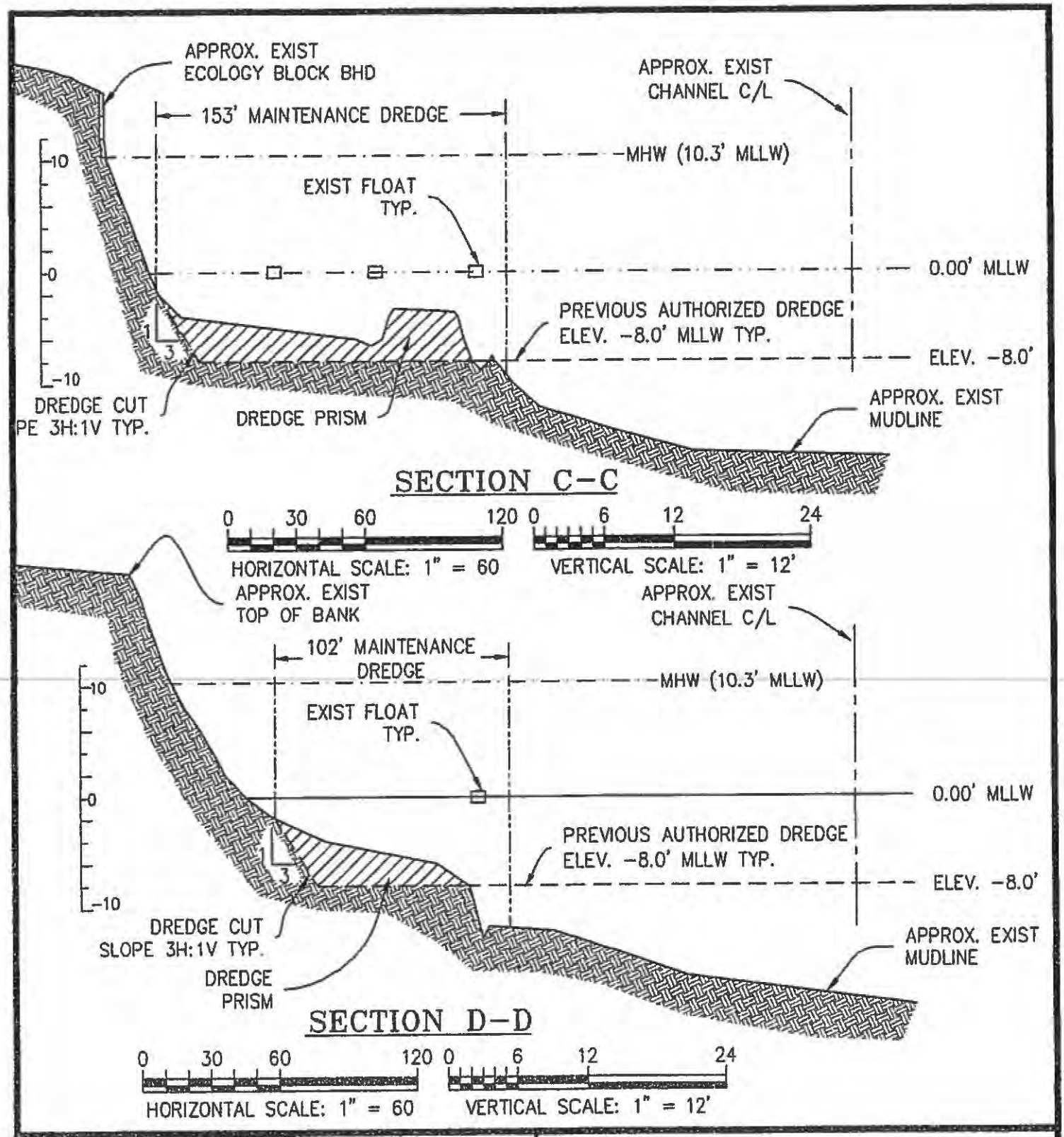
SHEET 3 OF 6 DATE: 9/9/2003



NAME: South Park Marina
PURPOSE: Maintain existing recreational facility
DATUM: MLLW

PROJECT #:
REFERENCE #:
IN: Duwamish Waterway, Duwamish River NEAR: Seattle
COUNTY: King9

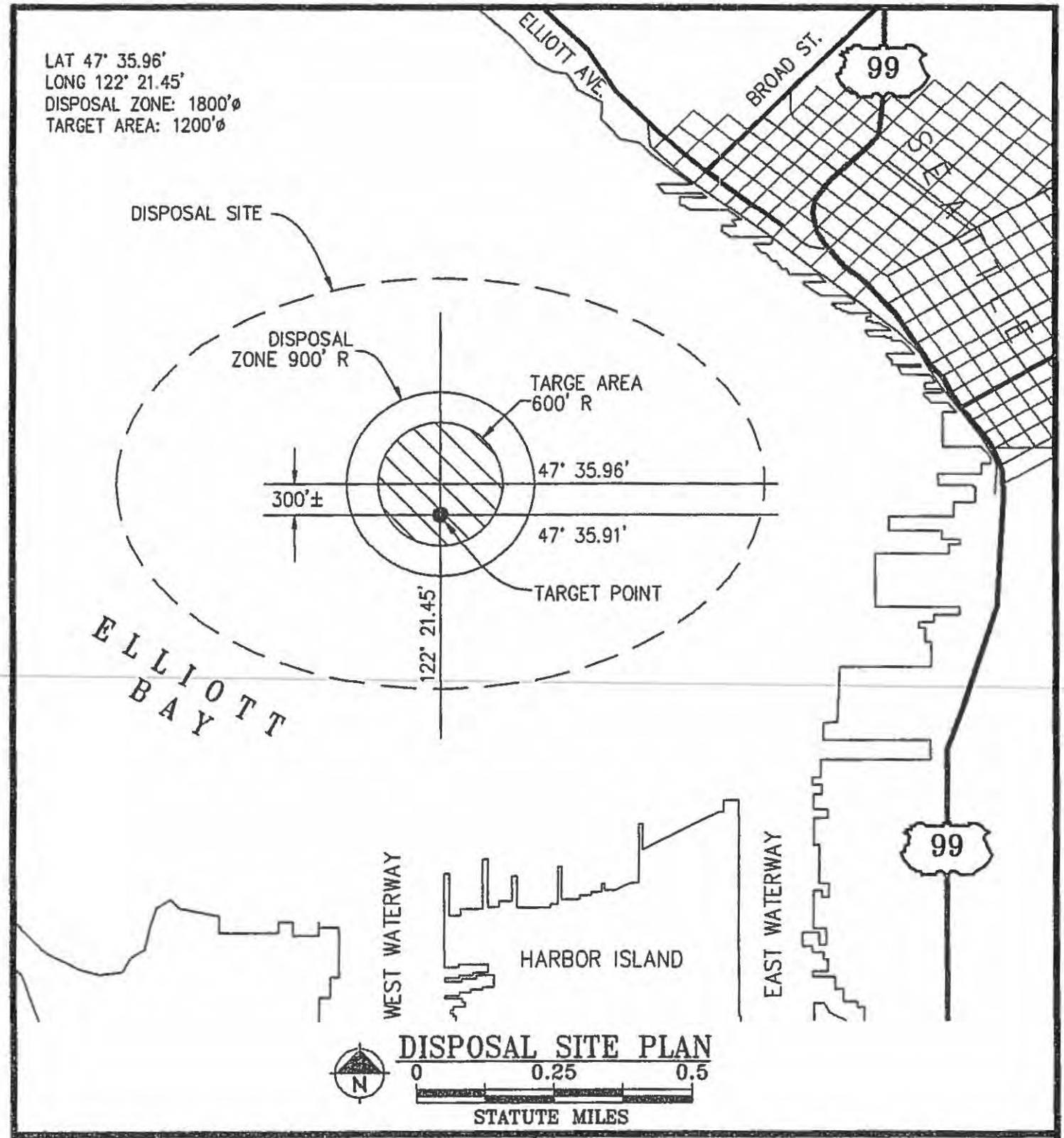
SHEET 4 OF 6 DATE: 9/9/2003



NAME: South Park Marina
PURPOSE: Maintain existing recreational facility
DATUM: MLLW

PROJECT #:
REFERENCE #:
IN: Duwamish Waterway, Duwamish River NEAR: Seattle
COUNTY: King

SHEET 5 OF 6 DATE: 9/9/2003



DISPOSAL SITE PLAN

NAME: South Park Marina PURPOSE: Maintain existing recreational facility DATUM: MLLW	PROJECT #: REFERENCE #: IN: Duwamish Waterway, Duwamish River NEAR: Seattle COUNTY: King SHEET 6 OF 6 DATE: 9/9/2003

APPENDIX A.3

Excerpts from CERCLA 104(e) 2008 and 2011 Responses

12.381
6-5-08

June 5, 2008

RECEIVED
JUN 06 2008
Environmental
Cleanup Office

Claire Hong
Remedial Project Manager
United States Environmental Protection Agency
Region 10
Environmental Cleanup Office, ECL-111
1200 Sixth Ave., Ste. 900
Seattle, WA 98101

RE: 104(e) Response (South Park Marina Limited Partnership; Willard Crow; and Rose Marie Crow

Dear Ms. Hong:

I attach the response of South Park Marina Limited Partnership to CERCLA Section 104(e) Information Request issued by your office and documents referenced in the response. Thank you for extending the deadline to respond.

Please be advised that this also serves as the response of Willard S. Crow and Rose Marie Crow. Willard and Rose Marie are my parents. They are elderly and unable to respond on their own. If you need details about their physical and mental conditions just let me know.

Sincerely,

Guy M. Crow
Registered Agent/Manager
South Park Marina Limited Partnership

Attachments

USEPA SF
1256733

U.S. EPA

CERCLA SECTION 104(e)

INFORMATION REQUEST

****

Respondent: Representative of South Park Marina
c/o Guy M. Crow

Site: Lower Duwamish Waterway, Seattle WA

South Park Marina
8604 Dallas Ave. S
Seattle, WA 98108-4853

King County Parcels: 2185000895 Rose
2185600070
2185600025 Tire Factory
0001600001

Date: 1952 to present

****

Please note: this Information Request includes instructions for responding to this request and definitions of words such as "Respondent," "Site," and "identify" used in the questions.

INFORMATION REQUEST QUESTIONS

1. **Respondent Information**

a. Provide the full legal name and mailing address of the Respondent.

b. For each person answering these questions on behalf of Respondent, provide:

i. full name;

ii. title;

iii. business address; and

iv. business telephone number and FAX machine number.

c. If Respondent wishes to designate an individual for all future correspondence concerning this Site, please indicate here by providing that individual's name, address, telephone number, and fax number.

d. State the dates during which Respondent held any property interests at or within one-half mile of the above mentioned address.

e. State the dates during which Respondent conducted any business activity at or within one-half mile of the above mentioned address.

f. Describe the nature of Respondent's business activities at the above mentioned address or within one-half mile of that address.

g. In relation to your answer to the previous question, identify all materials used or created by your activities at the above mentioned address, including raw materials, commercial products, building debris, and other wastes.

h. If Respondent, its parent corporation, subsidiaries or other related or associated companies have filed for bankruptcy, provide:

   i. the U.S. Bankruptcy Court in which the petition was filed;

   ii. the docket numbers of such petition;

   iii. the date the bankruptcy petition was filed;

   iv. whether the petition is under Chapter 7 (liquidation), Chapter 11 (reorganization), or other provision; and

   v. a brief description of the current status of the petition.

2. <u>Site Activities and Interests</u>

a. Provide all documents in your possession regarding the ownership or environmental conditions of the property mentioned above, including, but not limited to, copies of deeds, sales contracts, leases, blueprints, "as-builts" and photographs.

b. Provide information on the condition of the property when purchased; describe the source, volume, and content of any fill material used during the construction of the buildings, including waterside structures such as seawalls, wharves, docks, or marine ways.

c. Provide information on past dredging or future planned dredging at this site.

d. Provide a brief summary of the activities conducted at the site while under Respondent's ownership or operation. Include process diagrams or flow charts of the industrial activities conducted at the site.

e. Provide all documents pertaining to sale, transfer, delivery, disposal, of any hazardous substances, scrap materials, and/or recyclable materials to this property.

f. Provide all information on electrical equipment used at the facility, including transformers or other electrical equipment that may have contained polychlorinated biphenyls (PCBs).

g. Provide information on the type(s) of oils or fluids used for lubrication of machinery or other industrial purposes, and any other chemicals or products which are or may contain hazardous substances which are or were used at the facility for facility operations.

h. Provide any site drainage descriptions, plans or maps that include information about storm drainage which includes, but is not limited to, above or below surface piping, ditches, catch basins, manholes, and treatment/detention or related structures including outfalls. If available, also include information about connections to sanitary sewer.

i. With respect to past site activities, please provide copies of any stormwater or drainage studies, including data from sampling, conducted at these properties. Also provide copies of any Stormwater Pollution Prevention or Maintenance Plans or Spill Plans that may have been developed for different operations during the Respondent's occupation of the property.

3. Information About Others

a. Describe any business relationship you may have had regarding this property or operations thereon with the following entities:

i. Gary Merlino Construction Co.,
ii. Guy M. Crow,
iii. Port of Seattle,
iv. Rick's Master Marine, and
v. Willard S. and Rose Marie Crow.

a. b. Provide the names and last known address of any tenants or lessees, the dates of their tenancy and a brief description of the activities they conducted while operating on the above mentioned site including but not limited to the following entities:

i. A & B Barrel,
ii. Big O Tires,

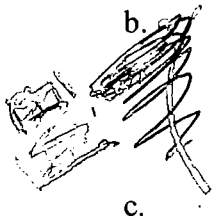
iii. Rick's Master Marine, and
iv. South Park Tire Factory, Inc.

c. If not already provided, identify and provide a last known address or phone number for all persons, including Respondent's current and former employees or agents, other than attorneys, who have knowledge or information about the generation, use, purchase, storage, disposal, placement, or other handling of hazardous materials at, or transportation of hazardous materials to or from, the Site.

4. Financial Information

a. Provide true and complete copies of all federal income tax documents, including all supporting schedules, for 2002, 2003, 2004, 2005, 2006 and 2007. Provide the federal Tax Identification Number and, if documentation is not available, explain why in detail.

b. Provide the Respondent's financial interest in, control of, or that the Respondent is a beneficiary of any assets (in the U.S. or in another country) that have not been identified in your federal tax returns or other financial information to be presented to EPA. If there are such assets, please identify each asset by type of asset, estimated value, and location.



c. If Respondent is, or was at any time, a subsidiary of, otherwise owned or controlled by, or otherwise affiliated with another corporation or entity, then describe the full nature of each such corporate relationship, including but not limited to:

i. a general statement of the nature of relationship, indicating whether or not the affiliated entity had, or exercised, any degree of control over the daily operations or decision-making of the Respondent's business operations at the Site;

ii. the dates such relationship existed;

iii. the percentage of ownership of Respondent that is held by such other entity(ies);

iv. for each such affiliated entity provide the names and complete addresses of its parent, subsidiary, and otherwise affiliated entities, as well as the names and addresses of each such affiliated entity's officers, directors, partners, trustees, beneficiaries, and/or shareholders owning more than five percent of that affiliated entity's stock;

v. provide any and all insurance policies for such affiliated entity(ies) which may possibly cover the liabilities of the Respondent at the Site; and

vi. provide any and all corporate financial information of such affiliated

entities, including but not limited to total revenue or total sales, net income, depreciation, total assets and total current assets, total liabilities and total current liabilities, net working capital (or net current assets), and net worth.

5. Insurance Coverage

* your parents have an umbrella policy
* we don't

a. Provide copies of all property, casualty and/or liability insurance policies, and any other insurance contracts referencing the site or facility and/or Respondent's business operations (including, but not limited to, Comprehensive General Liability, Environmental Impairment Liability, Pollution Legal Liability, Cleanup Cost Cap or Stop Loss Policies). Include, without limitation, all primary, excess, and umbrella policies which could be applicable to costs of environmental investigation and/or cleanup, and include the years such policies were in effect.

b. If there are any such policies from question "5a" above which existed, but for which copies are not available, identify each such policy by providing as much of the following information as possible:

   i. the name and address of each insurer and of the insured;

   ii. the type of policy and policy numbers;

   iii. the per occurrence policy limits of each policy; and

   iv. the effective dates for each policy.

c. Identify all insurance brokers or agents who placed insurance for the Respondent at any time during the period being investigated, as identified at the beginning of this request, and identify the time period during which such broker or agent acted in this regard.

d. Identify all communication and provide all documents that evidence, refer, or relate to claims made by or on behalf of the Respondent under any insurance policy in connection with the site. Include any responses from the insurer with respect to any claims.

e. Identify any previous settlements with any insurer in connection with the site, or for any claims for environmental liabilities during the time period under investigation. Include any policies surrendered or cancelled by the Respondent or insurer.

f. Identify any and all insurance, accounts paid or accounting files that identify Respondent's insurance policies.

g. Identify Respondent's policy with respect to document retention.

6. **Compliance with This Request**.

a. Describe all sources reviewed or consulted in responding to this request, including, but not limited to:



i. the name and current job title of all individuals consulted;

ii. the location where all documents reviewed are currently kept.

INSTRUCTIONS

1. Answer Each Question Completely. Provide a separate answer to each question and subpart set forth in this Information Request. Incomplete, evasive, or ambiguous answers shall constitute failure to respond to this Information Request and may subject the Respondent to the penalties set out in the cover letter.

2. Number Each Answer. Number each answer with the number of the question to which it corresponds.

3. Provide the Best Information Available. Provide responses to the best of Respondent's ability, even if the information sought was never put down in writing or if the written documents are no longer available. Seek out responsive information from current and former employees/agents. Submission of cursory responses when other responsive information is available to the Respondent will be considered noncompliance with this Information Request.

4. Identify Information Sources. For each question, identify all persons and documents relied upon for the answer.

5. Confidential Information. The information requested herein must be provided even though the Respondent may contend that it includes confidential information or trade secrets. The Respondent may assert a confidentiality claim covering part or all of the information requested, pursuant to 42 U.S.C. §§ 9604(e)(7)(E) and (F), and 40 C.F.R. § 2.203(b). All information claimed to be confidential should be contained on separate sheet(s) and should be clearly identified as "trade secret" or "proprietary" or "company confidential." A confidentiality claim should be supported by the submission of information consistent with 40 C.F.R. Part 2. Information covered by a confidentiality claim will be disclosed by EPA only to the extent, and only by means of the procedures, provided in 40 C.F.R. §§ 2.201-2.311. **If no such claim accompanies the information received by EPA, it may be made available to the public by EPA without further notice.**

6. Disclosure to EPA Contractor. Information submitted in response to this Information Request may be disclosed by EPA to authorized representatives of the United States, pursuant to 40 C.F.R. § 2.310(h), even if the Respondent asserts that all or part of it is confidential business information. EPA may provide this information to its contractors for the purpose of organizing and/or analyzing the information contained in the responses to this Information Request. If submitting information and asserting it is entitled to treatment as confidential business information, the Respondent may comment on EPA's intended disclosure within 14 days of receiving this Information Request.

7. Personal Privacy Information. Personnel and medical files, and similar files the disclosure of which to the general public may constitute an invasion of privacy, should be segregated from responses, included on separate sheet(s), and marked as "Personal Privacy Information". Note, however, that unless prohibited by law, EPA may disclose this information to the general public without further notice.

8. Objections. The Respondent must provide responsive information notwithstanding objections to certain questions. To object without providing responsive information may subject Respondent to the penalties set out in the cover letter.

9. Privilege. If a privilege is asserted for any document responsive to this Information Request, identify (see Definitions) the document and provide the basis for assertion. If a privilege exists for only a portion of a document, provide the portion of the document that is not asserted be privileged, identify the portion that is asserted to be privileged, and provide the basis for asserting privilege. **Please note that regardless of the assertion of any privilege, any facts contained in the document which are responsive to the Information Request must be disclosed in your response.**

10. Declaration. The Respondent must complete the enclosed declaration, certifying the accuracy of all statements in your response.

DEFINITIONS

All terms not defined herein shall have their ordinary meaning, unless such terms are defined in Section 101 of CERCLA, 42 U.S.C. § 9601, *et seq.*, or Volume 40 of the Code of Federal Regulations (CFR), in which case such statutory or regulatory definitions shall apply.

The following definitions shall apply to the following words as they appear in this Enclosure:

1. The term "Respondent" shall mean the addressee of this Request, together with the addressee's agents, employees, and contractors.

2. The terms "document" and "documents" shall mean any method of recording, storing, or transmitting information. "Document" shall include, but not be limited to:

    a. writings of any kind, including, but not limited to, any of the following:

        i. letters, memoranda, fax transmittals;

        ii. meeting minutes, telephone records, notebooks;

        iii. agreements and contracts;

        iv. reports to shareholders, management, or government agencies;

        v. transportation manifests;

        vi. copies of any document.

    b. any film, photograph, or sound recording on any type of device;

    c. any blueprints or drawings;

    d. attachments to, or enclosures with, any document.

3. The term "identify" means, with respect to a natural person, to set forth: (a) the person's full name, (b) present or last known business and home addresses and telephone numbers; and (c) present or last known employer (include full name and address) with job title, position, or business.

4. The term "identify" means, with respect to a corporation, partnership, business trust, or other entity, to set forth: (a) its full name; (b) complete street address; (c) legal form (e.g., corporation, partnership, etc.); (d) the state under whose laws the entity was organized; and (e) a brief description of its business.

5. The term "identify" means, with respect to a document, to provide: (a) its customary business description (e.g., letter, invoice); (b) its date; (c) its number if any (e.g., invoice or purchase order number); (d) the identity of the author, addressee, and/or recipient; and (e) a summary of the substance or the subject matter. **Alternatively,** Respondent may provide a complete copy of the document.

6. The term "material" or "materials" shall mean any and all raw materials, commercial products, wastes, chemicals, substances, or matter of any kind.

7. The "period being investigated" and "the relevant time period" shall mean 1952 to present.

8. The term "property" shall mean any interest in real or personal property whatsoever, including fee interests, leases, licenses, rental, and mineral rights.

9. The "Site" shall mean any or all property or area described as or near 8604 Dallas Ave S; and King County Tax Parcels: 2185000895, 2185600070, 2185600025, and 0001600001.

10. The term "waste" or "wastes" shall mean and include trash, garbage, refuse, by-products, solid waste, hazardous waste, hazardous substances, and pollutants or contaminants, whether solid, liquid, or sludge, including, but not limited to, building debris and asbestos-containing material.

11. The term "business activities" shall mean all actions, endeavors, ventures, or financing arrangements related in any manner whatsoever to the use and development of the Site, including surveying, sampling, grading, documentation, photography, demolition, construction, and waste disposal, and sales.

DECLARATION

I declare under penalty of perjury that I am authorized to respond on behalf of Respondent and that the foregoing is complete, true, and correct.

Executed on 5 June, 2008.

Signature

Guy M. Crow

Type or Print Name

Registered Agent/ Managing General Partner - South Park Marina L.P.

Title

Mailing Address:

Guy M. Crow
Registered Agent for South Park Marina
8604 Dallas Ave. S
Seattle, WA 98108-4853

Willard S. Crow
Owner
South Park Marina
8604 Dallas Ave. S
Seattle, WA 98108-4853

CERCLA SECTION 104(e)
INFORMATION REQUEST

RECEIVED
JUN 0 6 2008
Environmental
Cleanup Office

Respondent: South Park Marina, a Washington Limited Partnership
c/o Guy M. Crow, its Registered Agent
Site: Lower Duwamish Waterway, Seattle WA

South Park Marina
8604 Dallas Ave S
Seattle, WA 98108-4853

King County Parcels:
2185000895
2185600070
2185600025
000160001

Date: 1952 to present

Information Request Questions

1) Respondent Information

a. Guy M. Crow
2050 81st Ave. SE
Mercer Island, WA 98040

Please note: Guy M. Crow submits this response for South Park Marina Limited Partnership and for Willard S. Crow and Rose Marie Crow (who received separate 104(e) requests. Willard Crow and Rose Marie Crow are the parents of Guy Crow.

Willard Crow and Rose Marie Crow are elderly and lack the capability and/or capacity to separately respond. Willard Crow resides at Sea Mar Care Center, 1040 S Henderson St, Seattle, WA. Rose Marie Crow resides at Daystar Care Center, 2615 SW Barton, Seattle, WA.

b.
i. Guy M. Crow
ii. Managing General Partner, South Park Marina Limited Partnership
iii. 8604 Dallas Ave S
Seattle, WA 98108-4853
iv. phone: 206 762-3880 FAX: 206 767-3066

c. Guy M. Crow (*see above) will serve as the Respondent for all future correspondence concerning this site.

d. Property A: 1239 Rose St, Seattle, WA - purchased approximately 1952 – to present

Property B: 8510, 8532, 8538, 8540, and 8522 Dallas Ave S. Seattle, WA – purchased approximately 1952 – to present

Property C: 8544-46 Dallas Ave S, Seattle, WA – purchased Oct. 1972 - to present

Property D: 8604 Dallas Ave S, Seattle, WA –
leased from the Port of Seattle from April 1970 – Sept. 1978
leased from Gary Merlino from Oct 1978 – March 1980
purchased from Gary Merlino March 1980 – to present

Property E: 8603 Dallas Ave S – purchased Oct. 1984 – to present

Property F: 8456 Dallas Ave S – purchased Feb. 1991 – to present

Property G: 8701 17th Ave S – purchased Oct. 1992 – to present

Property H: 8700 16th Ave S – purchased July 1994 – to present

Property I: 8617 17th Ave S – purchased August 2007 – to present

* Please see map enclosed (pg 3) for above-mentioned properties A-D.

e. Business was conducted (or properties were rented to residential tenants) at or within one-half mile of the above-mentioned addresses from respective ownership/lease dates to present time.

f. Property A: used as residential rental and outside storage rental for autos and vessels

Property B: main portion of property was a trailer park; large warehouse building was rented to Bill Leaming of "Bill's Big O Tires"; homes on property were rentals

Property C: houses were rentals, and vacant land was used for boat storage

Property D: auto and boat storage

Property E: boat and truck storage

Property F: restaurant lease and boat storage

Property G: boat storage

Property H: boat storage

Property I: boat storage

g. Property A: fencing material, catch basin, and asphalt

Property B: fencing material, catch basins, asphalt, concrete, and other material consistent with building an 8600 square foot steel building, and 4,400 square foot pole building, including some fill materials.

Property C: none

Property D: asphalt, catch basins

Property E: fencing material, catch basin

Property F: fencing material, catch basin, and asphalt

Property G: fencing material

Property H: fencing material

Property I: none

h. Respondent has never filed for bankruptcy.

2. Site Activities and Interests

a. Property A or B: Respondent is unable to locate any information.

Property C: See enclosed photo and Real Estate Contract

Property D:

page 1-3: Lease between Commercial Waterway District #1 and Claude B. Jackson

page 4: Bill of Sale, personal property of Lawrence P. Olsen, Lessee of record

page 5-12: Lease agreement between Port of Seattle and Willard S. Crow, DBA South Park Boat Haven (later changed to South Park Marina)

page 13, 14: Statutory Warranty Deed

page 15-25: Purchase, Sale and Exchange Agreement

Property E:

page 1: Deed

page 2: Map

page 3, 4: Demolition Permit

page 5, 6: Change of Use Permit

page 7: Aerial view, taken 1982

page 8: Aerial view, taken 1985

Property F:

page 1-4: Title Report

page 5-26: Lease Agreement

Property G:

page 1-7: Title Report

page 8-12: Permit to demolish house and remove asbestos siding

Property H:

page 1-5: Title Report

Property I:

page 1-3: Purchase and Sale Agreement

2 b. Property A:

No fill material has ever been used on this property. The 65' of waterfront is a rocky slope to the river.

Property B:

Pages 1 and 2 show that 1216 cubic yards of sand were brought in
To make 8510 Dallas Ave S. (Big "O" Tire) level with Dallas Ave S.

Page 3 shows the demolition of 5 houses on what is now Rick's Master Marine, at 1411 S Thistle.

Page 4 shows that 240 cubic yards of pitrun was used to prepare for the building at 1411 S Thistle. The origin of the sand and pitrun is unknown.

Properties B – H:

No fill material was used.

Property I:

45 cubic yards of fill material of unknown origin was used on this property.

2 c. Enclosed are test results of sediment sampling. We have no future plans for dredging.

2 d.

Property A:

From 1952-1970, used as a residential rental. The additional land was used to park autos. In 1981, the property surrounding the house was fenced and used for boat storage and repair.

Property B:

From 1952-1980, property was a 60 pad trailer park. In 1981, the development of the expanded marina facility resulted in the reduction of trailer pads to about 40. This reduction in pads has continued gradually, being replaced with boat storage, and at present time there are no trailer pads remaining.

Property C:

From 1972-1980, property was used as residential rental. In 1980, 2 of the houses were demolished, one house became the marina business office which is used at present, and the duplex remained a residential rental, which is used as such at present.

Property D:

From 1970-present, used for car parking, boat repair, and boat storage. From 1980-1981, space was rented to North Star Trading Co, which imported 2 or 3 boats from Taiwan to sell in US. From 1995-1999, space was rented to Rich

Pakker, DBA Dekker Engineering. He built and patented a sonar hull retrieval device. He vacated property in 1999. From 1970 until October 1991, Marina sold Texaco gas to boaters. The supplier was the Ray F. Snyder Co of Kirkland, WA. Please see documentation for tank removal.

Properties E – I:

Used as boat storage from time of purchase to present.

2 e. Please see receipts from Basin Oil, and Emerald Environmental.

2 f. Respondent has no such equipment.

2 g. Respondent uses engine oil, grease to lube chassis, and antifreeze to maintain vehicles and a 35 ton crane.

2 h. Please see elevation map, and catch basin map. Property B includes restrooms and laundry room, which are connected via pump to Metro sewers.

2 i. Please see NPDES test results from site.

3. Information About Others

a.

i. In approximately 1987, Respondent hired Gary Merlino to install 3 fire hydrants and water line.

ii. Guy M. Crow was employed in the summer months of 1970-1974. In July 1975, he became a full-time employee. In approximately 1984, he became the Managing General Partner of South Park Marina Limited Partnership, and remains so at present.

iii. Respondent rented property D from the Port of Seattle from April 1970 until approximately 1978, when Gary Merlino purchased the property from the Port of Seattle.

iv. Respondent leased 1411 S Thistle to Rick's Master Marine from 1990-present. This is a landlord tenant relationship.

v. Willard and Rose Marie Crow purchased property A and B in 1953. They had purchased property C and D by 1983, and then formed South Park Marina

Limited Partnership. For one year, they were the General Partners, and in about 1984, Guy M Crow was made the Managing General Partner. Merry Ann Peterson, Richard V Crow, and Guy M Crow were made Limited Partners in 1983.

3 b.

i. Respondent has no knowledge of A& B Barrel or the identity of its principals or partners. Respondent does have a copy (copy enclosed) of what appears to be a 1946 Real Estate Contract between Alfred and Helga Sannes and J.R. Angle and R.W. Butz that appears to relate to part of the property. Angle and Butz might be the A & B of A & B Barrel but offer that only as conjecture.

ii. Respondent leased 8510 Dallas Ave S. to Mr. Bill Leaming, from about 1969 through approximately 1990. Business was conducted there as "Billy's Big O Tire", where tires were sold and some tire recapping was performed.

iii. Rick's Master Marine repairs and replaces marine out-drives and marine engines. They sell a limited supply of marine accessories.

iv. In approximately 1990, "Billy's Big O Tires" was purchased by Bob Kent, who conducted business under that name until about 1997. At that time, Bob changed distributors and the business became South Park Tire Factory, which sells tires and performs some auto repair to present.

3 c. Please see attached sheet of employees.

4 Financial Information

a. Please see attached copies of IRS returns for the Partnership, Willard and Rose Marie Crow, and Guy and Peggy Crow.

b. Respondent has no additional assets other than those contained in IRS returns.

c. Respondent has no such relationships.

5 Insurance Coverage

a. Please see attached copies of current insurance policies, and agencies Respondent has had policies with since 1970. Respondent has no insurance information prior to 1970. Since 1984, the brokerage of Insurance Underwriters has handled all of Respondent's insurance. Please contact Stephen Frazier, Insurance Underwriters, (425-454-3386) for any additional information.

b. Please see 5 a.

c. Please see 5 a.

d. N/A

c. N/A

f. Please see 5 a.

g. Respondent disposes of insurance policies that have expired. relevant.

6 Compliance With This Request

a. In responding to this request, Respondent has primarily relied on extensive review of storage boxes containing business transactions and legal documents dated from 1970 to present. In some cases, Respondent has relied on memory.

i. Guy M. Crow, Managing General Partner, South Park Marina LP.

ii. 2050 81st Ave SE, Mercer Island, WA

Catch Basin Information

2

h.

A. Round catch basin – drains to sewers

B. Round catch basin – drains to sewers

C. Rectangular catch basin – drains to outfall G

D. Rectangular catch basin – drains to C

E. Small rectangular catch basin – drains to G

F. Round catch basin – drains to G

G. Outfall – 2 feet below ecology blocks

H. Rectangular catch basin – drains to I

I. Rectangular catch basin – drains to J

J. Rectangular catch basin – drains to K

K. 3,000 gallon oil/water separator

L. Outfall – just under ecology blocks

South Park Marina
8604 Dallas Ave. S., Seattle, WA 98108, 762-3880

RECEIVED
JUN 14 2011
Environmental Cleanup Office

LDWSF
12.3.81.1
6/13/11

6/13/11

To: Aaron Lambert

From: Guy M. Crow, Managing General Partner, South Park Marina LP.

Concerning: Paragraph 3B, and 3C of the response of Form 104e.

I was asked to once again respond to these paragraphs which were addressed on my response of June 5, 2008. These are copies of my copy.

Thank you,

Guy M. Crow

Limited Partnership. For one year, they were the General Partners, and in about 1984, Guy M Crow was made the Managing General Partner. Merry Ann Peterson, Richard V Crow, and Guy M Crow were made Limited Partners in 1983.

3 b.

i. Respondent has no knowledge of A& B Barrel or the identity of its principals or partners. Respondent does have a copy (copy enclosed) of what appears to be a 1946 Real Estate Contract between Alfred and Helga Sannes and J.R. Angle and R.W. Butz that appears to relate to part of the property. Angle and Butz might be the A & B of A & B Barrel but offer that only as conjecture.

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3 c. Please see attached sheet of employees.

4 Financial Information

a. Please see attached copies of IRS returns for the Partnership, Willard and Rose Marie Crow, and Guy and Peggy Crow.

b. Respondent has no additional assets other than those contained in IRS returns.

c. Respondent has no such relationships.

South Park Marina Employees

Ben Spoelstra: 1/75 – 7/75
(Phone and social security number unknown)

Guy M. Crow: 7/75 to present
Social security #: [redacted]
Phone: [redacted]

Clell Romine: 11/75 – 11/76, and 5/76 – 2/77
Social security #: [redacted]
(Phone number unknown)

Nick Adamo: 5/77 – 12/78, and 4/80 – 8/87, and 10/88 to present
Social security #:
Phone: [redacted]

Bill Armstrong: 6/80 – 4/82
Social security #: [redacted]
(Phone number unknown)

Richard Crow: 12/80 to present
Social security #[redacted]5
Phone: 206 232-9159

Jonna Crow: 2/83 to present
Social security #[redacted]
Phone: [redacted]

Jim Geisler: 8/87 – 5/94
Social security #: [redacted]
(Phone number unknown)

Jim Yri: 10/92 – 6/94
Social security #: [redacted]
(Phone number unknown)

Don Simmons: 6/94 – 7/04
Social security #: [redacted]
(deceased)

Brian Crow: 7/03 – 9/04
Social security #: [redacted]
Phone: [redacted]

Paul Richmond: 12/06 to present
Social security #: [redacted]
Phone: [redacted]

Jeff Corbett: 2/07 to present
Social security #: [redacted]
Phone: [redacted]

Mallor Mends: 9/07 to present
Social security #: [redacted]
(phone unknown)

CERCLA SECTION 104(e)
INFORMATION REQUEST

RECEIVED
SEP 19 2011
Farallon Consulting, L.L.C.

Respondent: Representative of South Park Marina
C/o Guy M. Crow
Site: Lower Duwamish Waterway, Seattle WA

South Park Marina
8604 Dallas Ave S
Seattle, WA 98108-4853

King County Parcels:
2185000895
2185600070
2185600025
000160001

Date: 1952 to present

Information Request Questions

1) Respondent Information

a. Guy M. Crow
2050 81st Ave. SE
Mercer Island, WA 98040
*Serving as the Respondent for himself and his parents (Willard S. Crow: Sea Mar Care Center, 1040 S Henderson St, Seattle, and Rose Marie Crow: Daystar Care Center, 2615 SW Barton, Seattle), who are incapable of answering any of these questions.

b.
i. Guy M. Crow
ii. Managing General Partner, South Park Marina Limited Partnership
iii. 8604 Dallas Ave S
Seattle, WA 98108-4853
iv. phone: 206 762-3880 FAX: 206 767-3066

c. Guy M. Crow (*see above) will serve as the Respondent for all future correspondence concerning this site.

d. Property A: 1239 Rose St, Seattle, WA - purchased approximately 1952 – to present

Property B: 8510, 8532, 8538, 8540, and 8522 Dallas Ave S. Seattle, WA – purchased approximately 1952 – to present

Property C: 8544-46 Dallas Ave S, Seattle, WA – purchased Oct. 1972 - to present

Property D: 8604 Dallas Ave S, Seattle, WA –
leased from the Port of Seattle from April 1970 – Sept. 1978
leased from Gary Merlino from Oct 1978 – March 1980
purchased from Gary Merlino March 1980 – to present

Property E: 8603 Dallas Ave S – purchased Oct. 1984 – to present

Property F: 8456 Dallas Ave S – purchased Feb. 1991 – to present

Property G: 8701 17th Ave S – purchased Oct. 1992 – to present

Property H: 8700 16th Ave S – purchased July 1994 – to present

Property I: 8617 17th Ave S – purchased August 2007 – to present

* Please see map enclosed (pg 3) for above-mentioned properties A-D.

e. Business was conducted (or properties were rented to residential tenants) at or within one-half mile of the above-mentioned addresses from respective ownership/lease dates to present time.

f. Property A: used as residential rental and outside storage rental for autos and vessels

Property B: main portion of property was a trailer park; large warehouse building was rented to Bill Leaming of "Bill's Big O Tires"; homes on property were rentals

Property C: houses were rentals, and vacant land was used for boat storage

Property D: auto and boat storage

Property E: boat and truck storage

Property F: restaurant lease and boat storage

Property G: boat storage

Property H: boat storage

Property I: boat storage

g. Property A: fencing material, catch basin, and asphalt

Property B: fencing material, catch basins, asphalt, concrete, and other material consistent with building an 8600 square foot steel building, and 4,400 square foot pole building, including some fill materials.

Property C: none

Property D: asphalt, catch basins

Property E: fencing material, catch basin

Property F: fencing material, catch basin, and asphalt

Property G: fencing material

Property H: fencing material

Property I: none

h. Respondent has never filed for bankruptcy.

2. Site Activities and Interests

a. Property A or B: Respondent is unable to locate any information.

Property C: See enclosed photo and Real Estate Contract

Property D:

page 1-3: Lease between Commercial Waterway District #1 and Claude B. Jackson

page 4: Bill of Sale, personal property of Lawrence P. Olsen, Lessee of record

page 5-12: Lease agreement between Port of Seattle and Willard S. Crow, DBA South Park Boat Haven (later changed to South Park Marina)

page 13, 14: Statutory Warranty Deed

page 15-25: Purchase, Sale and Exchange Agreement

Property E:

page 1: Deed

page 2: Map

page 3, 4: Demolition Permit

page 5, 6: Change of Use Permit

page 7: Aerial view, taken 1982

page 8: Aerial view, taken 1985

Property F:

page 1-4: Title Report

page 5-26: Lease Agreement

Property G:

page 1-7: Title Report

page 8-12: Permit to demolish house and remove asbestos siding

Property H:

page 1-5: Title Report

Property I:

page 1-3: Purchase and Sale Agreement

2 b. Property A:

No fill material has ever been used on this property. The 65' of waterfront is a rocky slope to the river.

Property B:

Pages 1 and 2 show that 1216 cubic yards of sand were brought in
To make 8510 Dallas Ave S. (Big "O" Tire) level with Dallas Ave S.

Page 3 shows the demolition of 5 houses on what is now Rick's Master Marine, at 1411 S Thistle.

Page 4 shows that 240 cubic yards of pitrun was used to prepare for the building at 1411 S Thistle. The origin of the sand and pitrun is unknown.

Properties B – H:

No fill material was used.

Property I:

45 cubic yards of fill material of unknown origin was used on this property.

2 c. Enclosed are test results of sediment sampling. We have no future plans for dredging.

2 d.

Property A:

From 1952-1970, used as a residential rental. The additional land was used to park autos. In 1981, the property surrounding the house was fenced and used for boat storage and repair.

Property B:

From 1952-1980, property was a 60 pad trailer park. In 1981, the development of the expanded marina facility resulted in the reduction of trailer pads to about 40. This reduction in pads has continued gradually, being replaced with boat storage, and at present time there are no trailer pads remaining.

Property C:

From 1972-1980, property was used as residential rental. In 1980, 2 of the houses were demolished, one house became the marina business office which is used at present, and the duplex remained a residential rental, which is used as such at present.

Property D:

From 1970-present, used for car parking, boat repair, and boat storage. From 1980-1981, space was rented to North Star Trading Co, which imported 2 or 3 boats from Taiwan to sell in US. From 1995-1999, space was rented to Rich Pakker, DBA Dekker Engineering. He built and patented a sonar hull retrieval device. He vacated property in 1999. From 1970 until October 1991, Marina sold Texaco gas to boaters. The supplier was the Ray F. Snyder Co of Kirkland, WA. Please see documentation for tank removal.

Properties E – I:

Used as boat storage from time of purchase to present.

2 e. Please see receipts from Basin Oil, and Emerald Environmental.

2 f. Respondent has no such equipment.

2 g. Respondent uses engine oil, grease to lube chassis, and antifreeze to maintain vehicles and a 35 ton crane.

2 h. Please see elevation map, and catch basin map. Property B includes restrooms and laundry room, which are connected via pump to Metro sewers.

2 i. Please see NPDES test results from site.

3. Information About Others

a.

i. In approximately 1987, Respondent hired Gary Merlino to install 3 fire hydrants and water line.

ii. Guy M. Crow was employed in the summer months of 1970-1974. In July 1975, he became a full-time employee. In approximately 1984, he became the Managing General Partner of South Park Marina Limited Partnership, and remains so at present.

iii. Respondent rented property D from the Port of Seattle from April 1970 until approximately 1978, when Gary Merlino purchased the property from the Port of Seattle.

iv. Respondent leased 1411 S Thistle to Rick's Master Marine from 1990-present. This is a landlord tenant relationship.

v. Willard and Rose Marie Crow purchased property A and B in 1953. They had purchased property C and D by 1983, and then formed South Park Marina Limited Partnership. For one year, they were the General Partners, and in about 1984, Guy M Crow was made the Managing General Partner. Merry Ann Peterson, Richard V Crow, and Guy M Crow were made Limited Partners in 1983.

3 b.

i. Respondent has no knowledge of A& B Barrel.

ii. Respondent leased 8510 Dallas Ave S. to Mr. Bill Leaming, from about 1969 through approximately 1990. Business was conducted there as "Billy's Big O Tire", where tires were sold and some tire recapping was performed.

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a. Please see attached copies of current insurance policies, and agencies Respondent has had policies with since 1970. Respondent has no insurance information prior to 1970. Since 1984, the brokerage of Insurance Underwriters has handled all of Respondent's insurance. Please contact Stephen Frazier, Insurance Underwriters, (425-454-3386) for any additional information.

b. Please see 5 a.

c. Please see 5 a.

d. N/A

e. N/A

f. Please see 5 a.

g. Respondent disposes of insurance policies that have expired or are no longer relevant.

6 Compliance With This Request

a. In responding to this request, Respondent has primarily relied on extensive review of storage boxes containing business transactions and legal documents dated from 1970 to present. In some cases, Respondent has relied on memory.

i. Guy M. Crow, Managing General Partner, South Park Marina LP.

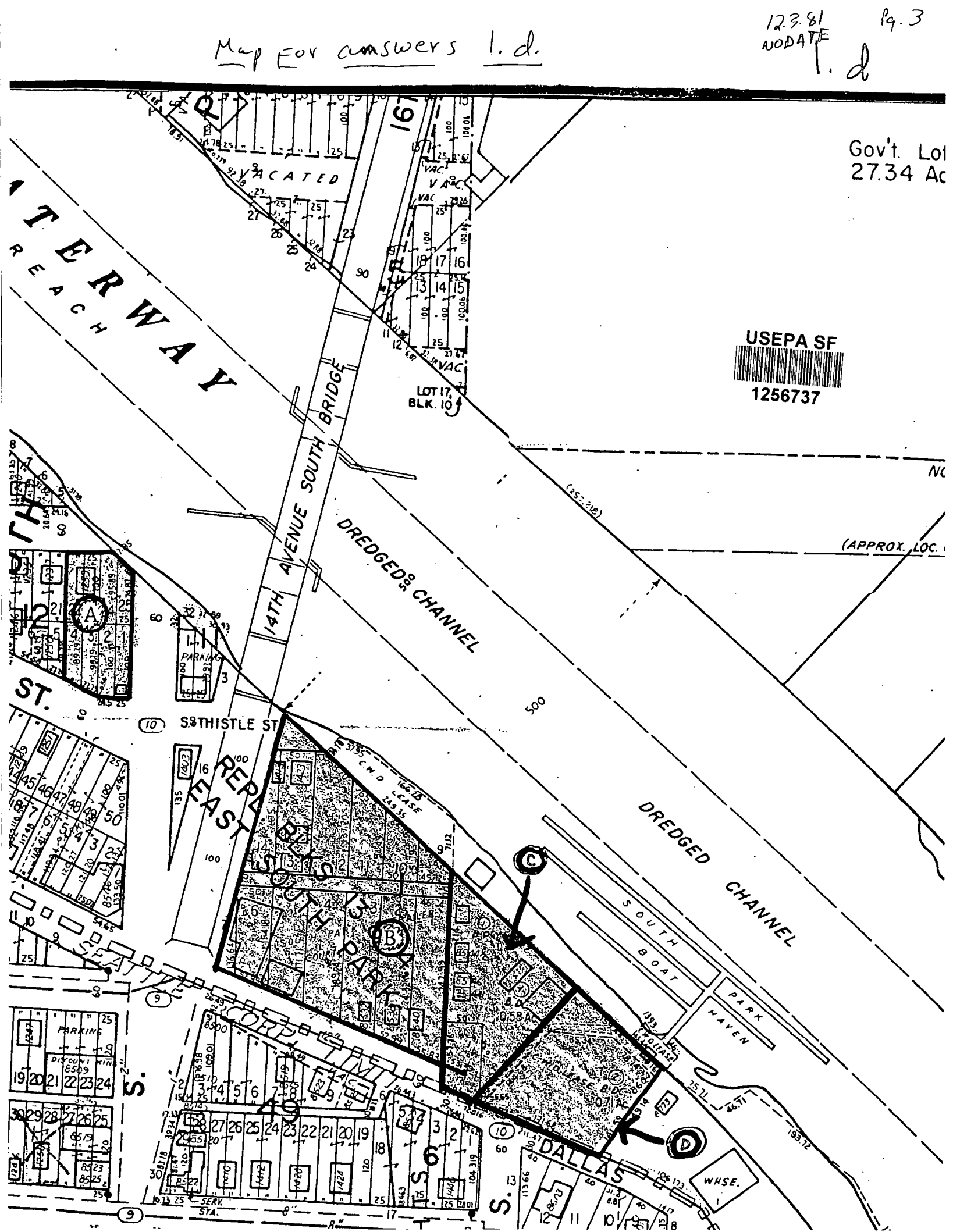
ii. 2050 81st Ave SE, Mercer Island, WA

Map for answers 1. d.

12.3.81 NODATE

Pg. 3

1. d



2.b. 12.3.81
8-22-73
Prop. B
Pg. 1 of 2

BOULEVARD EXCAVATING INC
P.O. BOX 6126 • SEATTLE, WASHINGTON 98188
11035 PACIFIC HIGHWAY SO. • RO 2-0550

SOLD TO Fig C Tire
Willard Crow 8510 Dallas Ave. S
8522 Dallas South
Seattle, Washington 98108

DATE August 22, 1973
INVOICE B-0823
P.O. NUMBER
JOB 8522 Dallas South

TERMS: NET CASH 30 DAYS, NO DISCOUNT

DATE	DESCRIPTION	HOURS	UNIT PRICE	AMOUNT
08-09-73	319 cubic yards of sand		$1.60	$ 510.40
08-10-73	600 cubic yards of sand		1.60	960.00
				$1,470.40
	5.3% State Sales Tax			77.93
	Total Amount Due			$1,548.33

USEPA SF
1256735

2.b.
Prop. B
Pg. 2 of 2

BOULEVARD EXCAVATING INC
P. O. BOX 6128 · SEATTLE, WASHINGTON 98188
11065 PACIFIC HIWAY SOUTH · (206) 762-0650

SOLD TO W. S. Crowe
Big-O-Tire
8522 Dallas South
Seattle, Washington 98108

DATE March 7, 1974
INVOICE B-1110
P.O. NUMBER
JOB South Park

TERMS: NET CASH 30 DAYS, NO DISCOUNT

DATE	DESCRIPTION	HOURS	UNIT PRICE	AMOUNT
02-13-74	297 cubic yards of sand		$1.75	$519.75
	~~D-4 Dozer~~ Per Bob Thompson	~~4~~	~~$23.00~~	~~92.00~~
				~~$611.75~~
	5.3% State Sales Tax			27.55 ~~32.42~~
	Total Amount Due			~~$644.17~~ 547.30
	Please fill out and return the enclosed tax card, if applicable.			

2.b.
Prop. B
Pg 3 of 4

BOULEVARD EXCAVATING INC
P. O. BOX 68128 · SEATTLE, WASHINGTON 98188
11065 PACIFIC HIWAY SOUTH · (206) 762-0650
BO-UL-EE- ★ 342LL

DATE 9/12/86

INVOICE B5928

P.O. NUMBER

JOB

SOLD TO SOUTH PARK MARINA
8604 Dallas Ave South
Seattle, WA 98108

Attn: Guy Crow

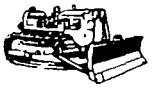
TERMS: NET CASH 30 DAYS, NO DISCOUNT
1% per month interest charged on past due accounts

DATE	DESCRIPTION	HOURS	UNIT PRICE	AMOUNT
9/12/86	Demolition of group of houses lacated at South Park Marina: - 5 houses at 1411 Thistle			$4,600.00
	Demolition of one additional house on South Park Marina property: 8532 Dallas Ave. S.			800.00
				5,400.00
	.079 Sales Tax			426.60
	TOTAL DUE THIS INVOICE			$5,826.60

Thank you

2.b.
Prop. B
Pg. 4 of 4

Prepair ground for 1411 S. Thistle - Master Marine Building



STATEMENT

PHONE 762-3020

№ 6444

SUNNYDALE CONSTRUCTION CO. INC.

CONTRACTOR # SUNNYCC182MT
TONY COLELLA
1119 - SOUTH 96TH STREET
SEATTLE, WASHINGTON 98108

DATE October 16 19 86

South Park Marina
8604 Dallas, South Seattle, 98108

10/13	8	hrs. dozer @ 50.00 per. hr.			400	00
	140	yds. pitrun @ 7.00 per. yd.			980	00
	42.4	tons crushed rock @ 10.00	per ton		424	00
10/14	5	hrs. dozer @ 50.00			250	00
	100	yds. pitrun @ 7.00			700	00
	100.05	tons crushed rock @	10.00 per ton		1000	50
				$	3,754	50
			S.S.J.		296	61
			Total	$	4,051	11

12.3.81
10-29-91 2.d.

BURLINGTON
ENVIRONMENTAL INC.
CHEMPRO Division

TO: Guy Crow
South Park Marina
8604 Dallas Ave. South
Seattle, WA 98108

RE: Work Order # 91S548

Location: (Same as above)

Date: 10-29-91

This letter serves to document activities regarding the cleaning, removal, and disposal of underground storage tanks. (1) Each 1,000 gallon ex-gasoline tank.

Chemical Processors, Inc. (Chempro) does hereby state that all sampling and testing methods have been in accordance with WAC 173-303-110; that transportation has been in accordance with WAC 173-303-040-94; that cleaning has been accomplished in accordance with WAC 173-303-160; and that all liquid sludge and scrap metal disposal has been performed in accordance with WAC 171-303-120.2/090.8/040.82.

Please contact Greg Fladseth at 682-4898 if further information is required.

Any unusual or otherwise regulated requirements are separately documented.

Respectfully,
CHEMPRO
Environmental Services Division

Greg Fladseth
Operations Superintendent

LFG:jh

7440 West Marginal Way South
Seattle, WA 98108
(206) 682-4898 • FAX: (206) 233-0869

USEPA SF
1256738

UNDERGROUND STORAGE TANK
Permanent Closure/Change-In-Service Checklist

The purpose of this form is to certify the proper closure/change-in-service of underground storage tank (UST) systems. These activities must be conducted in accordance with Chapter 173.360 WAC. Washington State UST rules require the tank owner or operator to notify Ecology in writing 30 days prior to closure or change-in-service of tanks. This must be done by completing the 30 Day Notice form (ECY 010-155).

This Permanent Closure Checklist shall be completed and signed by a **Licensed Decommissioning Supervisor**. The supervisor shall be on site when all tank permanent closure/change-in-service activities are being conducted. The firm which employs the licensed supervisor shall also be licensed by the Washington State Department of Ecology as a **Service Provider**. If any of the activities listed below have been supervised by a different licensed supervisor, a separate checklist must be filled out and signed by the licensed supervisor performing those activities.

For further information about completing this form, please contact the Department of Ecology UST Program.

A separate checklist must be completed for each UST system (tank and associated piping), except that UST systems at one site may be reported together by completing page 2 of this form separately for each system. The completed checklist should be mailed to the following address within 30 days of the completion of the closure or change-in-service.

Underground Storage Tank Section
Department of Ecology
Mail Stop PV-11
Olympia, WA 98504-8711

1. UST SYSTEM OWNER AND LOCATION

Site Owner/Operator: GUY CROW

Owners Address: 8604 - DALLAS AVE. SO. (Street) (P.O. Box)

SEATTLE, WA., 98108 (City) (State) (ZIP-Code)

Telephone: (206) 762-3800

Site ID Number (on invoice or available from Ecology if tank is registered): KING CO. PERMIT # C900 3717

Site/Business Name: SOUTH PARK MARINA

Site Address: (SAME AS ABOVE) (Street) (County)

(City) (State) (ZIP-Code)

2. TANK PERMANENT CLOSURE/CHANGE-IN-SERVICE PERFORMED BY:

Firm: BURLINGTON ENVIRONMENTAL (CHEMPRO) License Number: S000235

Address: 7440 - W. MARGINAL WAY SO. (Street) (P.O. Box)

SEATTLE, WA., 98108 (City) (State) (ZIP-Code)

Telephone: (206) 767-0441

Licensed Supervisor: L.G. FLADSETH Decommissioning License Number: W000998

This page must be completed separately for each tank permanently closed (decommissioned) or change-in-service at the site. For additional tanks you may photocopy this form prior to completing.

3. TANK CLOSURE/CHANGE-IN-SERVICE INFORMATION

1. Tank ID Number (as registered with Ecology): N/A
2. Year installed: 1980
3. Tank capacity in gallons: 1000
4. Date of last use: NOV '90
5. Last substance stored: GASOLINE
6. Date of closure/change-in-service: 10-29-91
7. Type of closure: Closure with Tank Removal [✓] In-place Closure [ ] Change-in-Service [ ]
8. If in-place closure is used, the tank has been filled with the following substance: _____
9. If change-in-service, indicate new substance stored in tank: _____
10. Local permit(s) (if any) obtained from: D.O.E. / KING CO. BALD (ALL)

Always contact local authorities regarding permit requirements.

11. Has a site assessment been completed? Yes [✓] No [ ]

Unless an external release detection system is operating at the time of closure or change in service, and a report is provided as specified in WAC 173-360-390, a site assessment must be conducted. This site assessment must be conducted by a person registered with the Department of Ecology to perform site assessments. Results of the site assessment must be included with the Site Assessment Checklist (ECY 010-158).

4. CHECKLIST

Each item of the following checklist shall be initialed by the **licensed supervisor** whose signature appears below.

	Yes	No	NA*
1. Has all liquid been removed from product lines?	✓		
2. Has all product piping been capped or removed?	✓		
3. Have all non-product lines been capped or removed?	✓		
4. Have all liquid and accumulated sludges been removed from the tank?	✓		
5. Has the tank been properly purged or inerted?	✓		
6. Have the drop tube, fill pipe, gauge pipe, pumps and other tank fixtures been removed?	✓		
7. Have all tank openings been plugged or capped? NOTE: One plug should have 1/8 inch vent hole.	✓		
8. Have all sludges removed from the tank been designated and disposed of in accordance with the state of Washington's dangerous waste regulations (Chapter 173-303 WAC)?	✓		
9. If removed, was tank properly labeled and disposed of in accordance with all applicable local, state and federal regulations?	✓		

*Item not applicable

I hereby certify that I have been the licensed supervisor present on site during the above listed permanent closure activities and to the best of my knowledge they have been conducted in compliance with all applicable state and federal laws, regulations and procedures pertaining to underground storage tanks.

Persons submitting false information are subject to penalties under Chapter 173.360 WAC.

11-4-91 (Date) — [signature] — BEI/CHEMPRO (Signature of Licensed Supervisor)

5. ADDITIONAL REQUIRED SIGNATURES

11-4-91 (Date) — [signature] — BEI/CHEMPRO (Signature of Licensed Service Provider (firm) Owner or Authorized Representative)

_____ (Date) — _____ (Signature of Tank Owner or Authorized Representative)

UNDERGROUND STORAGE TANK
Site Check/Site Assessment Checklist

The purpose of this form is to certify the proper investigation of an UST site for the presence of a release. These activities shall be conducted in accordance with Chapter 173.360 WAC. A description of the various situations requiring a site check or site assessment is provided in the guidance document for UST site checks and site assessments.

This Site Check/Site Assessment Checklist shall be completed and signed by a person registered with the Department of Ecology to perform site assessments.

Two copies of the results of the site check or site assessment should be included with this checklist according to the reporting requirements in the guidance document for UST site checks and site assessments.

For further information about completing this form, please contact the Department of Ecology UST Program.

The completed checklist should be mailed to the following address:

Underground Storage Tank Section
Department of Ecology
Mail Stop PV-11
Olympia, WA 98504-8711

1. UST SYSTEM OWNER AND LOCATION

UST Owner/Operator: GUY CROW

Owners Address: 8604 - DALLAS AVE. SO. (Street) (P.O. Box)

SEATTLE, WA., 98108 (City) (State) (ZIP-Code)

Telephone: (206) 762-3880

Site ID Number (on invoice or available from Ecology if tank is registered): KING CO. PERMIT # C9003717

Site/Business Name: SOUTHPARK MARINA

Site Address: (SAME AS ABOVE) (Street) (County)

(City) (State) (ZIP-Code)

2. SITE CHECK/SITE ASSESSMENT CONDUCTED BY:

Registered Person: P. VANDERVELDE / BURLINGTON ENVIRONMENTAL, INC (CHEMPRO)

Address: 7440 - W. MARGINAL WAY SO. (Street) (P.O. Box)

SEATTLE, WA., 98108 (City) (State) (ZIP-Code)

Telephone: (206) 682-4898

3. TANK INFORMATION

1. Tank ID Number (as registered with Ecology): N/A
2. Year installed: ~~UNKNOWN~~ 1980
3. Tank capacity in gallons: 1000
4. Last substance stored: GASOLINE

4. REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT

Check one:

_____ Investigate suspected release due to on-site environmental contamination

_____ Investigate suspected release due to off-site environmental contamination

_____ Extend temporary closure of UST system for more than 12 months

_____ UST system undergoing change-in-service

_____ UST system permanently closed-in-place

✓ UST system permanently closed with tank removed

_____ Required by Ecology or delegated agency for UST system closed before December 22, 1988

_____ Other (describe): _____

5. CHECKLIST

Each item of the following checklist shall be initialed by the person registered with the Department of Ecology whose signature appears below.

	Yes	No
1. Has the site check/site assessment been conducted according to applicable procedures specified in the UST site check/site assessment guidance issued by the Department of Ecology?	PV	
2. Has a release from the UST system been confirmed? *NOTE: Owners/operators must report all confirmed releases to the Department of Ecology or delegated agency within 24 hours.*	PV	
3. Are the results of the site check/site assessment enclosed with this checklist? *NOTE: Two copies of the site check/site assessment results must be submitted to the Department of Ecology according to the reporting requirements specified in the UST site check/site assessment guidance.*	PV	

I hereby certify that I have been in responsible charge of performing the site check/site assessment described above. Persons submitting false information are subject to penalties under Chapter 173.360 WAC.

11-4-91
Date

Pete Vanderwell
Signature of Person Registered with Ecology

6. OWNER'S SIGNATURE

_____
Date

_____
Signature of Tank Owner or Authorized Representative

SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

Report To: Chempro - Field Services Date: October 30, 1991

Report On: Analysis of Soil Lab No.: 20913

IDENTIFICATION:
Samples received on 10-29-91
P.O. No. 16350FS
Project: 91S548 South Park Marina

ANALYSIS:

Lab Sample No.	RUSH 1	RUSH 2
Client ID	91S548-B1	91S548-SW1
Units	mg/kg	mg/kg
BTEX by EPA Method 8020		
Benzene	< 0.05	< 0.05
Toluene	< 0.05	< 0.05
Ethyl Benzene	< 0.05	< 0.05
Xylenes	< 0.05	< 0.05
SURROGATE RECOVERY BTEX- Trifluorotoluene %	98	86

SOUND ANALYTICAL SERVICES

STAN P. PALMQUIST

This report is issued solely for the use of the person or company to whom it is addressed. This laboratory accepts responsibility only for the due performance of analysis in accordance with industry acceptable practice. In no event shall Sound Analytical Services, Inc. or its employees be responsible for consequential or special damages in any kind or in any amount.

SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206) 922-2310 - FAX (206) 922-5047

QUALITY CONTROL REPORT

Client: Chempro - Field Services
Lab No: 20913 (1)
Date: October 30, 1991
Client ID: 91S548-B1
Matrix: Soil
Units: mg/kg

DUPLICATES

Parameter	Sample(S)	Duplicate(D)	RPD
Benzene	< 0.05	< 0.05	0.0
Toluene	< 0.05	< 0.05	0.0
Ethyl Benzene	< 0.05	< 0.05	0.0
Xylenes	< 0.05	< 0.05	0.0
%Surrogate Recovery Trifluorotoluene	98	68	

RPD = relative percent difference
= [(S - D) / ((S + D) / 2)] x 100

METHOD BLANK

Parameter	Blank Value
Benzene	< 0.05
Toluene	< 0.05
Ethyl Benzene	< 0.05
Xylenes	< 0.05
%Surrogate Recovery Trifluorotoluene	91

This report is issued solely for the use of the person or company to whom it is addressed. This laboratory accepts responsibility only for the due performance of analysis in accordance with industry acceptable practice. In no event shall Sound Analytical Services, Inc. or its employees be responsible for consequential or special damages in any kind or in any amount.

SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

ANALYTICAL NARRATIVE

BTEX CHECKLIST

Client: Chempro - Field Services Lab No.: 20913

Project Name: 91S548 Prepared by: Stan Palmquist

Delivered by: Greg V. of Chempro Analyzed by: Stan Palmquist

Lab Number	Rush 1	Rush 2			
Client ID	91S548-B1	91S548-SW1			
Date Sampled	10-29-91	10-29-91			
Date Received	10-29-91	10-29-91			
Date Extracted	10-30-91	10-30-91			
Date Analyzed	10-30-91	10-30-91			
Sample Matrix	Soil	Soil			
Condition of samples on receipt: Samples received cold and in good condition with chain of custody in order.					

This report is issued solely for the use of the person or company to whom it is addressed. This laboratory accepts responsibility only for the due performance of analysis in accordance with industry acceptable practice. In no event shall Sound Analytical Services, Inc. or its employees be responsible for consequential or special damages in any kind or in any amount.

10/29/91 Tues 1.00

King County
Building & Land Development Division
Parks, Planning and Recreations Department
3600-136th Place Southeast
Bellevue, Washington 98006-1400
(206) 296-6615

PERMIT #: C9003717 TYPE CONST. OCC.

ADDRESS: 8544 Dallas Ave. S.

PROJECT NAME: South Park Marina

DATE OF REQUEST: 10/17 DATE OF INSP.

TYPE OF INSPECTION: Tank Removal

CONTACT NAME: Greg PHONE #: 682-4898

COMMENTS:

APPROVALS: CORRECTIONS:

1 Tank removed & approved

- Inertion by CO_2 & dry ice.

- Certified by Dan Sly
Sound Testing Inc

Removal Approved

Al Alongi

NOTES:

- Pump - Rinse by NW Enviro

- Soil Analysis - Chempro

- Tanks taken to Chempro yard

- Tank 13 yrs old - gasoline

- Soil appears OK

- Tank cut on site Al Alongi Jr
(1 hole only)

Rev. 1/90

King County
Building & Land Development Division
Parks, Planning and Resources Department
3600 - 136th Place Southeast
Bellevue, Washington 98006-1400

Applicant : CROW, GUY
Appl.Address: 8604 DALLAS AVE S
SEATTLE, WA 98108
Phone Number: 762-3880

Activity No: C9003717
Project No : *9024001
Page : 1 of 1
Date : 12/04/90

* P E R M I T C O N D I T I O N S *

The conditions attached to this cover sheet apply to the permit referenced above. All conditions must be complied with by the contractor and verified by a Building Inspector or this permit will become null and void.

PROJECT REFERENCE INFORMATION:

Location : 8544 DALLAS AVE S KC
Permit Type : FLAMMABLE LIQUIDS STORAGE TANK Type Code: FIRETANK
Title : 1,000 GAL GAS TANK REMOVAL Valuation: 0
Description : DONATION CLAIM BUCKLEY #42-45
Occup'y/Type: Class: 036 Bldgs: 0 Units: 0

OTHER INFORMATION:

Fire District:	FD #11	
Remove Existing Tank?	Y	(Y/N)
Replace Existing Tank?	N	(Y/N)
Install New Tank?	N	(Y/N)

REVIEWED BY:

(Structure) _____

(Ordinance) _____

(Fire) Bob McDermott

(Mechanical) _____

( ) _____

King County
Building & Land Development Division
Parks, Planning and Resources Department
3600 - 136th Place Southeast
Bellevue, Washington 98006-1400

** CONDITIONS OF PERMIT/APPROVAL **

DATE: 12/04/90
PAGE: 1

Activity No: C9003717 TYPE: FIRETANK
Location: 8544 DALLAS AVE S KC

FIRE CONDITIONS

F001 - GENERAL: This correction sheet is an abridged version of code requirements and is a review aid only. It shall not be used in lieu of the Uniform Building, Fire, or Mechanical Codes or any King County regulations.

F003 - The approved plans shall not be changed, modified or altered without authorization from the building official.
THE APPROVED PLANS ARE REQUIRED TO BE ON THE JOB SITE, SECTION 303 (B), U.B.C.

F005 - A final inspection of the completed system is required. Call 296-6615 forty-eight (48) hours in advance for an on-site inspector.

F166 - The removal of underground fuel tank(s) shall be in accordance with attached guidelines from Commercial/Multifamily Products Section, Fire Protection Engineering Unit: U.F.C. 79.114.

F400 - THIS PERMIT IS FOR THE REMOVAL OF THE 1000 GALLON UNDERGROUND TANK.

SPECIAL FIRE CONDITIONS

FE00 - This permit includes the following:

FE19 - REMOVAL OF UNDERGROUND FLAMMABLE OF COMBUSTIBLE LIQUID STORAGE TANK

King County
Building & Land Development Division
Parks, Planning and Resources Department
3600 - 136th Place Southeast
Bellevue, Washington 98006-1400

Activity No: C9003717
Project No : *9024001
Page : 1 of 1
Date Issued: 10/14/91
Expires : 10/13/92

* C O N S T R U C T I O N P E R M I T *

Permit Type : FLAMMABLE LIQUIDS STORAGE TANK — Type Code: FIRETANK
Title : 1,000 GAL GAS TANK REMOVAL — Valuation: 0
Description : DONATION CLAIM BUCKLEY #42-45
Occup'y/Type: Class: 036 Bldgs: 0 Units: 0

Location : 8544 DALLAS AVE S KC — Zone: MH
Parcel: 000160 0001 STR: SW,NW,33-24-04 Block:
Lot: Plat: DONATION CLAIM BUCKLEY # 42 & 45
Water Source: Sewer Source:

Applicant : CROW, GUY — Phone number: 762-3880
Appl.Address: 8604 DALLAS AVE S
SEATTLE, WA 98108

CONTRACTOR : CHEMICAL PROCESSORS INC — Lic. C CHEMIPI151L1 206 767 0350
2203 AIRPORT WAY S STE 400
SEATTLE WA 98134

FEE SUMMARY

*** Fees Required ***		*** Fees Collected & Credits ***	
Fees:	88.00		
Adjustments:	.00	Total Credits:	.00
Total Fees:	88.00	Total Payments:	88.00
		Balance Due:	.00

COMMENTS AND CONDITIONS

1. This permit must be posted on the job site at all times in a visible and readily accessible location.
2. This permit is subject to all corrections indicated on the associated plans and attached conditions.
3. Work may proceed only at the direction of the field inspector. To request an inspection of work completed, call 296-6615, 24-hours a day. Requests for inspections made after 3:00 p.m. will not be processed in time for next day service.
4. This permit expires one year from the date of issue. A permit may be renewed only if a request to do so is received at least 30 days prior to the expiration date. After that time a permit may not be renewed and a new application must be submitted.

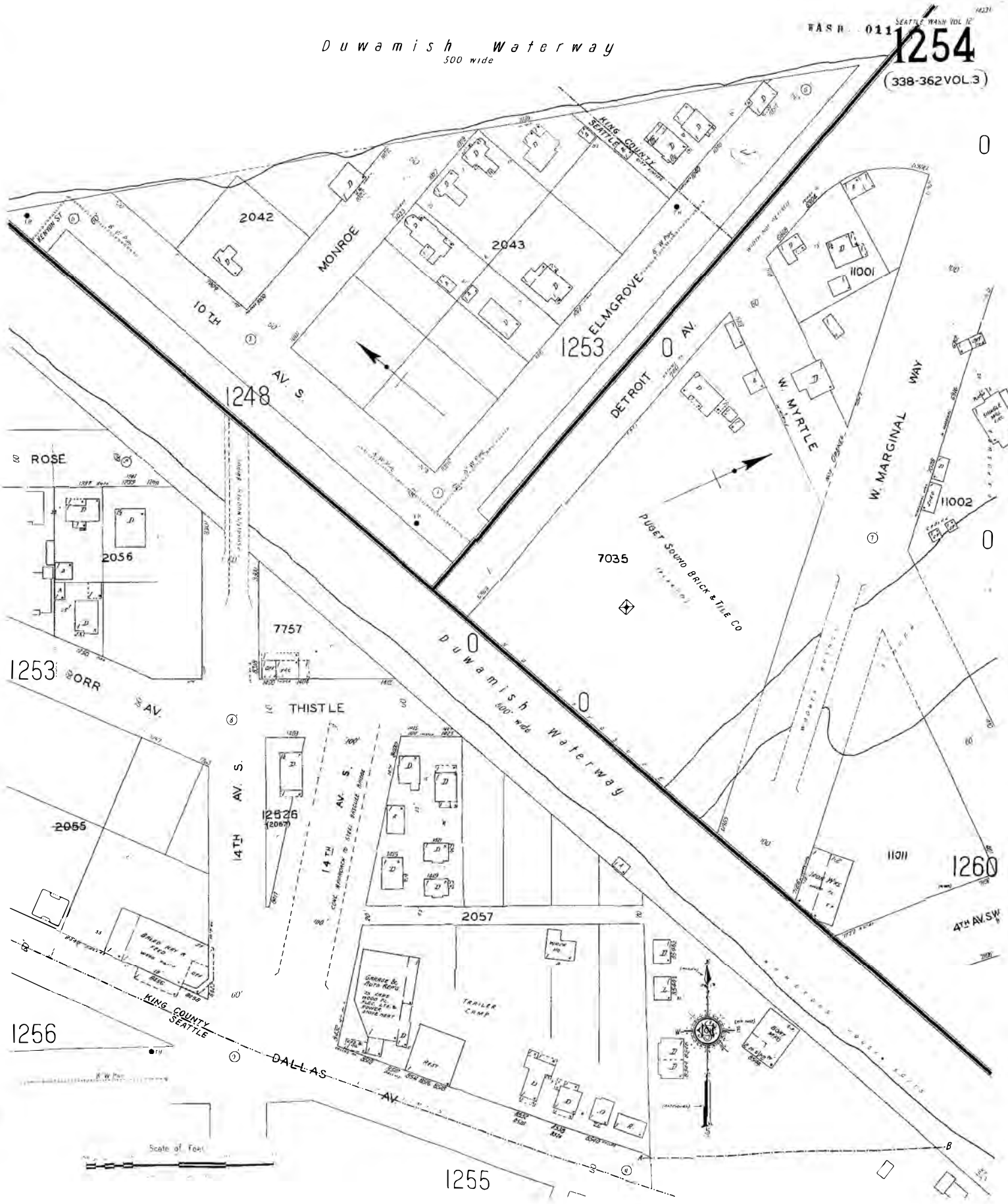
USEPA SF
1256743

J. h.

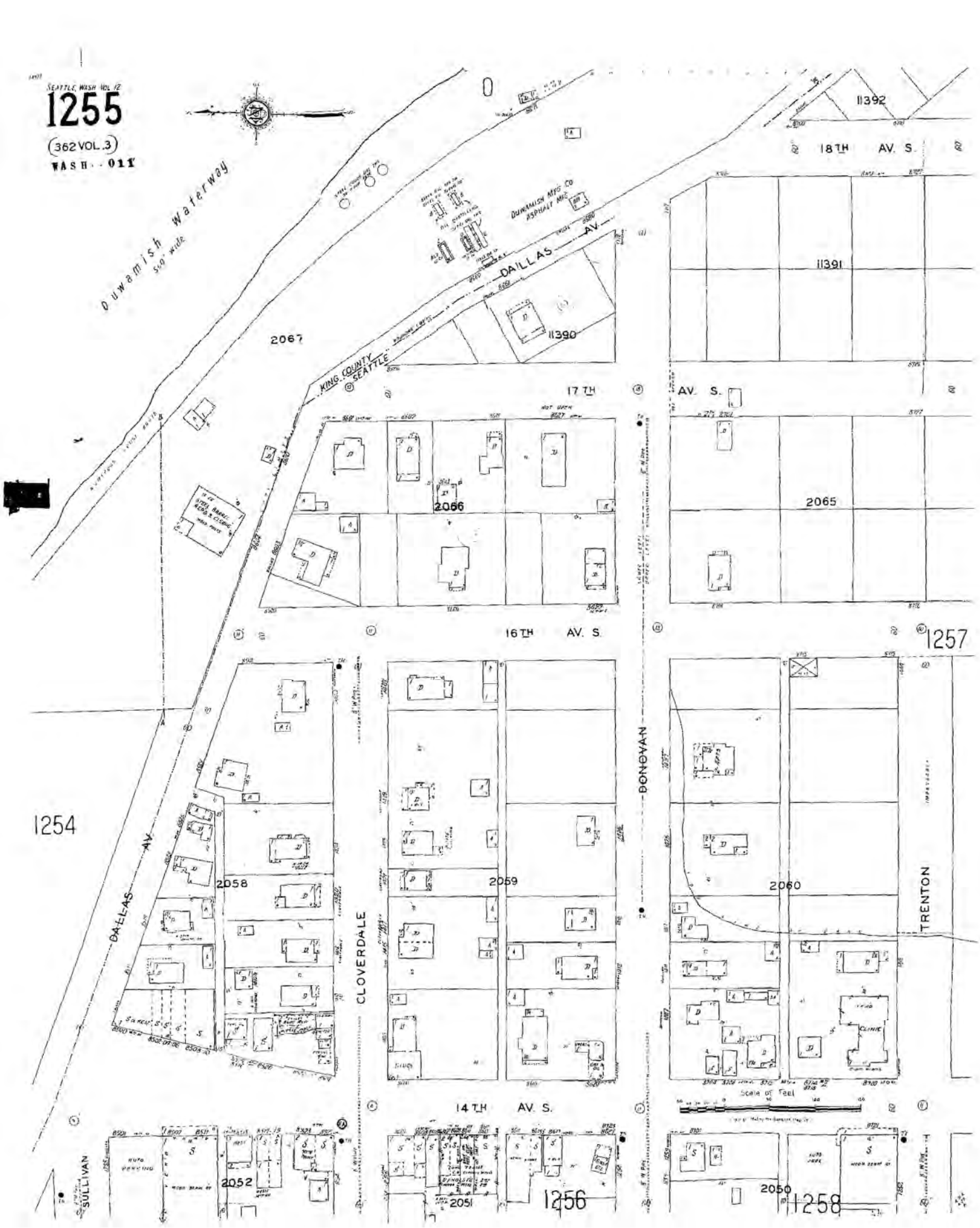
12-3-81 NO DATE

APPENDIX A.4

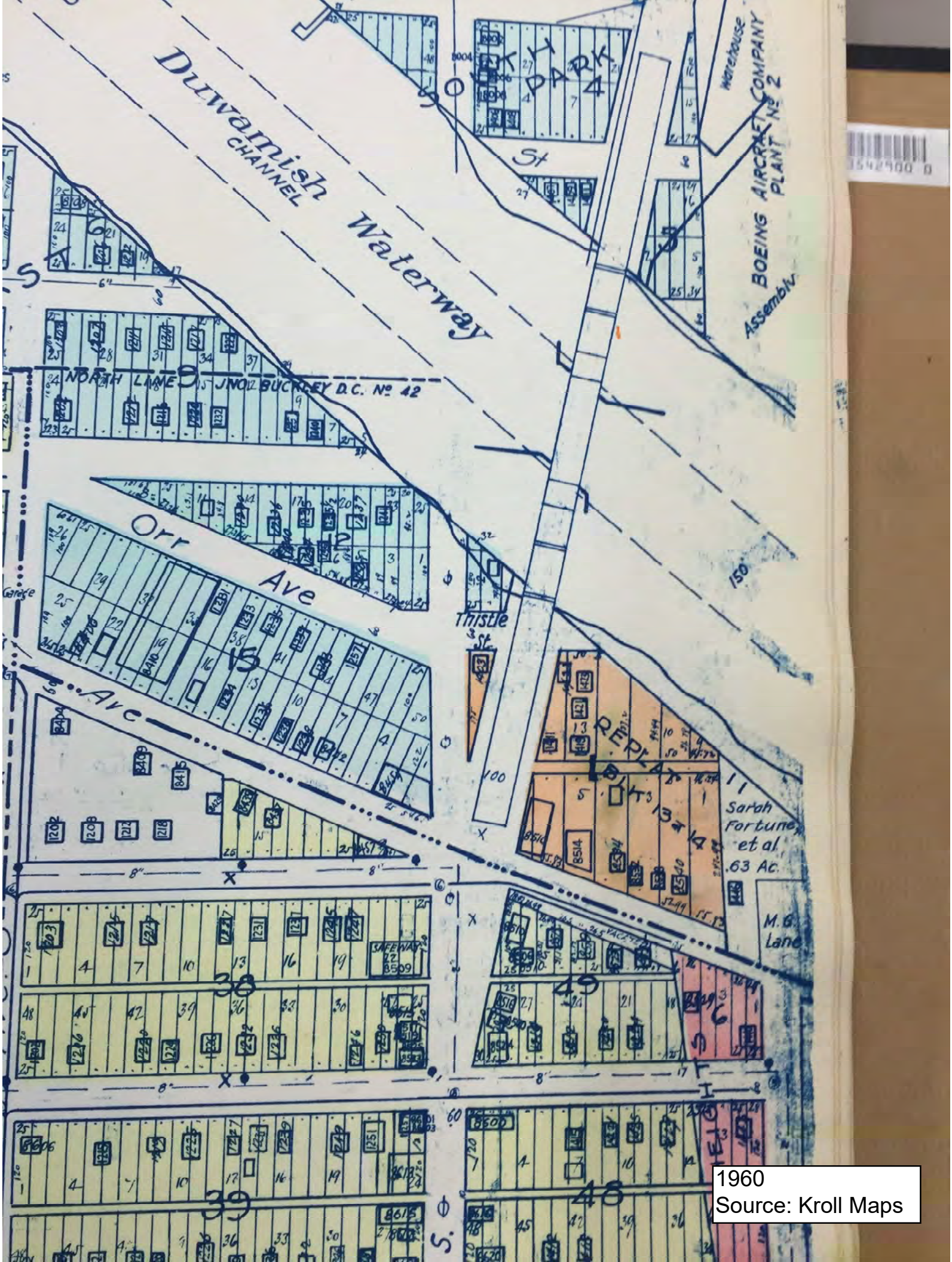
Kroll and Sanborn Maps

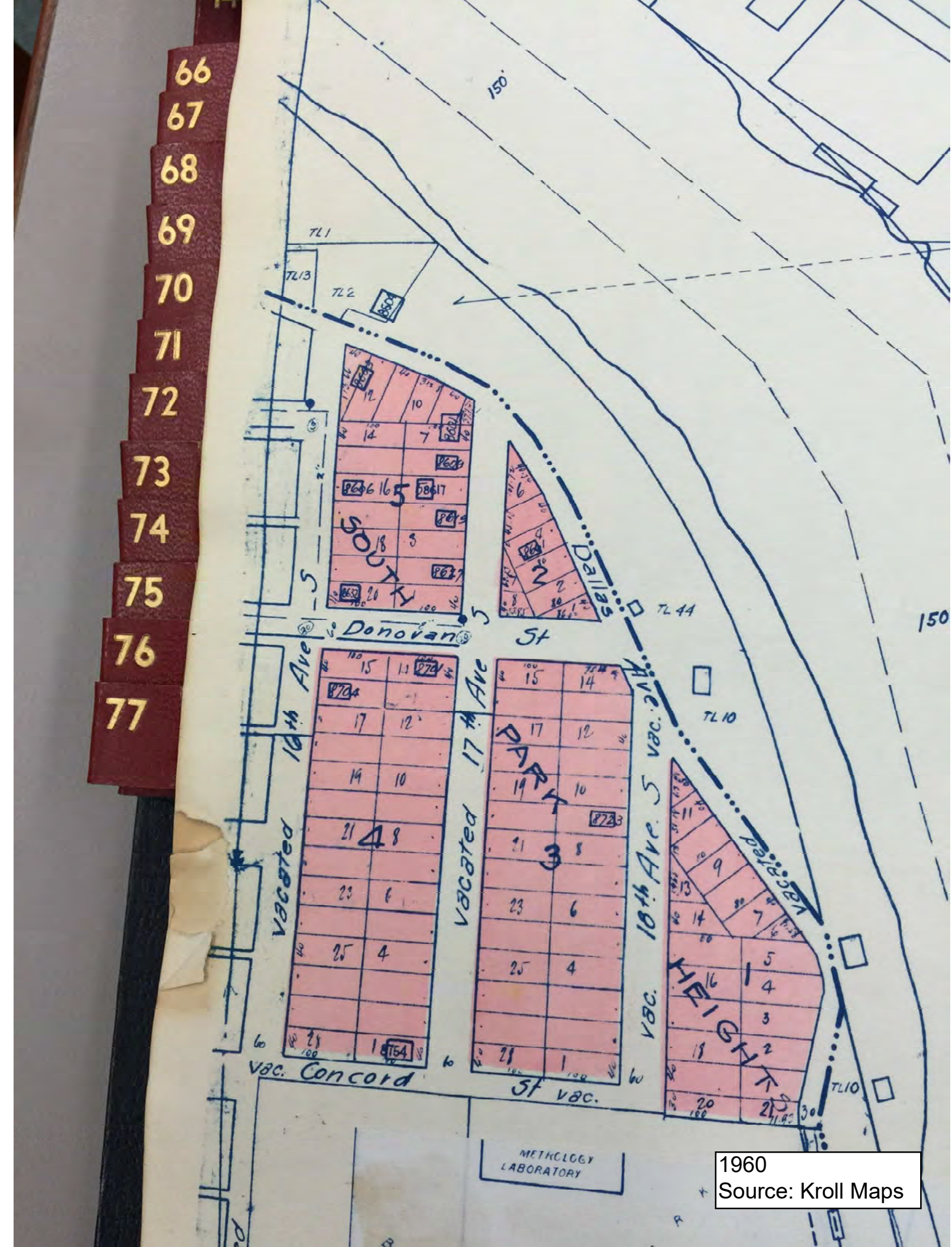


1951
Source: Sanborn Maps

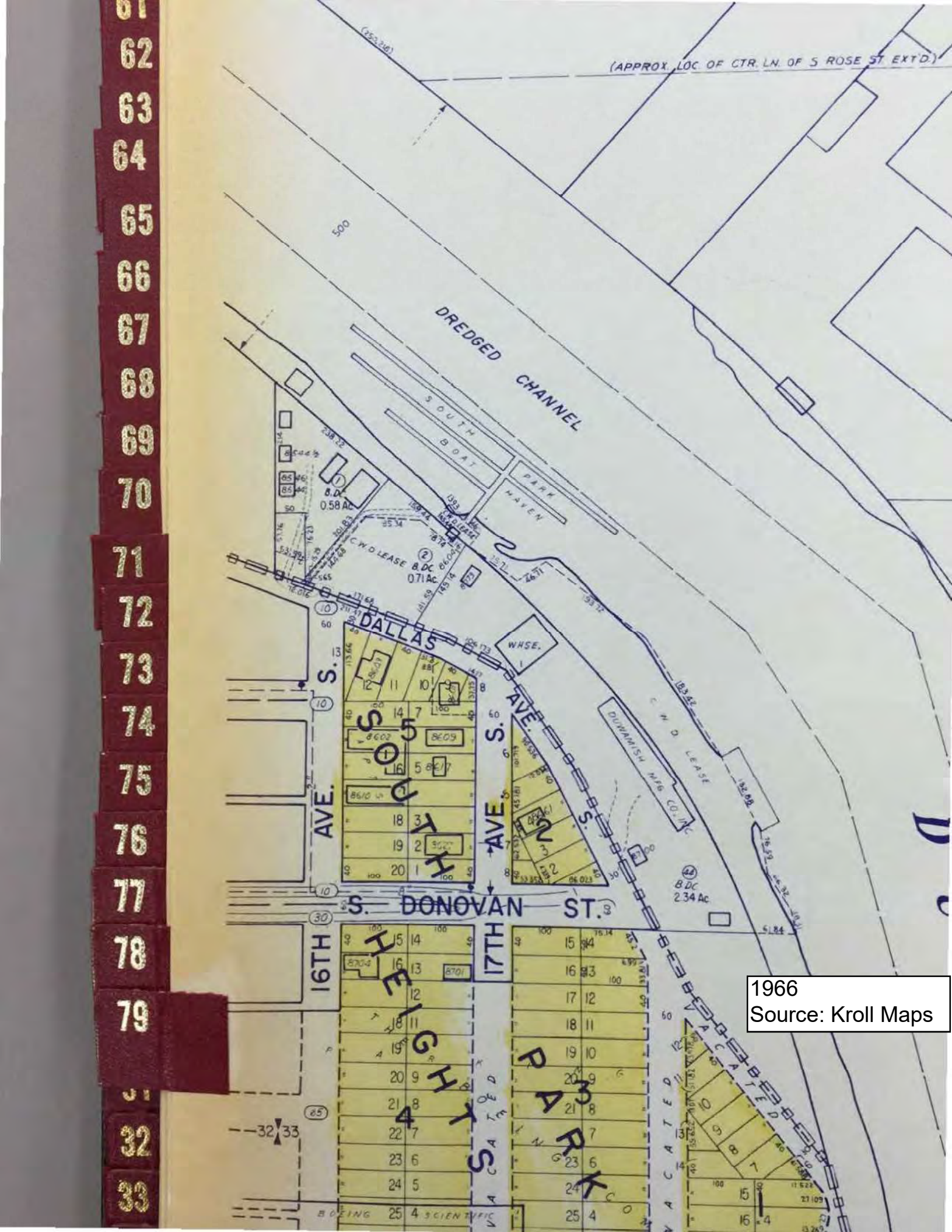


1951
Source: Sanborn Maps


Duwamish Waterway
CHANNEL
PARK
St
Warehouse
BOEING AIRCRAFT COMPANY PLANT No 2
Assembly
NORTH LAKE JNO BUCKLEY D.C. No 42
Orr
Ave
Thistle
St
Ave
REPLAT
Sarah Fortune et al .63 Ac.
M.G. Lane
SAFEWAY
150
100
1960
Source: Kroll Maps


66
67
68
69
70
71
72
73
74
75
76
77
150'
TL1
TL13
TL2
TL44
TL10
SOUTH
Donovan St
Dallas
PARK
HEIGHTS
Vacated 16th Ave
Vacated 17th Ave
Vac. 18th Ave. S
Vacated
Vac. Concord St Vac.
METROLOGY LABORATORY
1960
Source: Kroll Maps


WATERWAY
REACH
VACATED
14TH AVENUE SOUTH BRIDGE
DREDGED CHANNEL
LOT 17, BLK 10
VAC
SOUTH
EAST
S. ORR ST.
S. THISTLE ST
AVE. S.
SEATTLE
SOUTH PARK
SOUTH PARK COURT
TRAILER
0.58 AC
CORP. LIM.
SERV. STA.
AVE. S.
AVE. S.
37
38
39
48
49
T. S. 6
A
R
K
1966
Source: Kroll Maps



1966
Source: Kroll Maps

APPENDIX A.5

Title Search Records

The Fox Group, LLC

****CHAIN AND ENVIRONMENTAL LIEN SEARCH****

October 17, 2016

Mr. Hank Burnham
Envirosite Corp.
1175 Post Road E
Westport, CT 06880

RE: TFG File:T3544/Envirosite: #6860

Dear Mr. Burnham:

The Fox Group LLC title department has completed the Chain and Environmental Lien search on South Park Marina Allocation Technical Support, located at 8500, 8510 & 8604 Dallas Avenue South, Seattle, Washington 98108.

Should you have any questions or require further assistance, please contact your sales representative at 504-400-0569.

Sincerely,

Vicki Rogerson
Title Specialist

THE FOX GROUP SEARCH RESULTS

CHAIN AND ENVIRONMENTAL LIENS

Subject: **SOUTH PARK MARINA ALLOCATION TECHNICAL SUPPORT**
8604 DALLAS AVENUE SOUTH
SEATTLE, WASINGTON 98108

Public records on the subject real property identified above revealed the following information effective to September 28, 2016:

ASSESSMENT

Location: **King County**

Land/Description: Parcel of Land
Parcel No.000160-0001

DEEDS

1

Grantee(s): (Buyer) **South Park Marina Limited Partnership**

Grantor(s): (Seller) **Willard S. Crow and Rose Marie Crow**

Conveys: Parcel of Land

Date Executed:	February 9, 1993
Date Recorded:	February 18, 1993
Document Number:	9302181744

NOTE: Copy attached as Exhibit "A".

1

Grantee(s): (Buyer) **South Park Marina Limited Partnership**

Grantor(s): (Seller) **Willard S. Crow and Rose Marie Crow**

Conveys: Parcel of Land

Date Executed: February 9, 1993
Date Recorded: February 18, 1993
Document Number: 9302181743

NOTE: Copy attached as Exhibit "B".

2

Grantee(s): (Buyer) **Willard S. Crow and Rose Marie Crow**

Grantor(s): (Seller) **Gary Merlino Construction Company**

Conveys: Parcel of Land

Date Executed: September 19, 1980
Date Recorded: September 19 1980
Document Number: 8009190720

3

Grantee(s): (Buyer) **Gary Merlino Construction Company**

Grantor(s): (Seller) **Port of Seattle**

Conveys: Parcel of Land

Date Executed: October 3, 1978
Date Recorded: October 3, 1978
Document Number: 7810031082

4

Grantee(s): (Buyer) **Commercial Waterway District No. 1 of King County**

Grantor(s): (Seller) **John R. Angle and Carolyn A. Angle**

Conveys: Parcel of Land

Date Executed: August 7, 1959
Date Recorded: August 7, 1959
Document Number: 5065736

5

Grantee(s): (Buyer) **John R. Angle**

Grantor(s): (Seller) **Marian C. Warren**

Conveys: Parcel of Land

Date Executed: August 7, 1959
Date Recorded: August 7, 1959
Document Number: 5065735

6

Grantee(s): (Buyer) **Marian C. Warren**

Grantor(s): (Seller) **John R. Angle and Caroline Angle**

Conveys: Parcel of Land

Date Executed: August 7 1959
Date Recorded: August 7, 1959
Document Number: 5065706

7

Grantee(s): (Buyer) **J. R. Angle**

Grantor(s): (Seller) **Alfred E. Sannes and Helga M. Sannes**

Conveys: Parcel of Land

Date Executed: September 22, 1952
Date Recorded: September 22, 1952
Document Number: 4274090

8

Grantee(s): (Buyer) **John R. Angle**

Grantor(s): (Seller) **Robert M. Butz and Josette Butz**

Conveys: Parcel of Land

Date Executed: September 22, 1952
Date Recorded: September 22, 1952
Document Number: 4274089

9

Grantee(s): (Buyer) **Alfred Sannes**

Grantor(s): (Seller) **A. A. Tremper, Treasurer of King County, Washington**

Conveys: Parcel of Land

Date Executed: June 22, 1951
Date Recorded: June 22, 1951
Document Number: 4147195

10

Grantee(s): (Buyer) **John R. Angle**

Grantor(s): (Seller) **Robert W. Butz and Josette Butz**

Conveys: Parcel of Land

Date Executed: June 13, 19950
Date Recorded: June 13, 1950
Document Number: 4024535

11

Grantee(s): (Buyer) **J. R. Angle and R. W. Butz**

Grantor(s): (Seller) **Alfred E. Sannes and Helga M. Sannes**

Conveys: Parcel of Land

Date Executed: October 9, 1946
Date Recorded: October 9, 1946
Document Number: 3616266

12

Grantee(s): (Buyer) **Alfred E. Sannes and Helga M. Sannes**

Grantor(s): (Seller) **Ralph S. Stacy, as treasurer of King County, Washington**

Conveys: Parcel of Land

Date Executed: July 19, 1943
Date Recorded: July 19, 1943
Document Number: 3323367

EXAMINER'S NOTE

Public Records of King County, Washington were searched from January 1, 1940 to September 28, 2016, and no other deeds vesting title in the subject property were found of record during the period searched.

ENVIRONMENTAL LIENS

Public Records of King County, Washington were searched from January 1, 1940 to September 28, 2016, and no environmental liens on the subject property were found of record during the period searched.

AUL'S

Public Records of King County, Washington were searched from January 1, 1940 to September 28, 2016, and no activity or use limitations on the subject property were found of record during the period searched.

EASEMENTS

Public Records of King County, Washington were searched from January 1, 1940 to September 28, 2016, and no easements on the subject property were found of record during the period searched.

LEGAL DESCRIPTION

Legal description included on Exhibit "A-B".

THE FOX GROUP SEARCH RESULTS

CHAIN AND ENVIRONMENTAL LIENS

Subject: **SOUTH PARK MARINA ALLOCATION TECHNICAL SUPPORT**
8510 DALLAS AVENUE SOUTH
SEATTLE, WASINGTON 98108

Public records on the subject real property identified above revealed the following information effective to September 28, 2016:

ASSESSMENT

Location: **King County**

Land/Description: Parcel of Land
Parcel No.218560-0025

DEEDS

1

Grantee(s): (Buyer) **South Park Marina Limited Partnership**

Grantor(s): (Seller) **Willard S. Crow and Rose Marie Crow**

Conveys: Parcel of Land

Date Executed:	February 9, 1993
Date Recorded:	February 18, 1993
Document Number:	9302181740

NOTE: Copy attached as Exhibit “C”.

2

Grantee(s): (Buyer) **Willard S. Crow and Rose Marie Crow**

Grantor(s): (Seller) **J. R. Johnson and Ida Myrtle Johnson**

Conveys: Parcel of Land

Date Executed: November 15, 1967
Date Recorded: November 15, 1967
Document Number: 6265495

3

Grantee(s): (Buyer) **Willard S. Crow and Rose Marie Crow**

Grantor(s): (Seller) **J. R. Johnson and Ida Myrtle Johnson**

Conveys: Parcel of Land

Date Executed: July 11, 1952
Date Recorded: July 11, 1952
Document Number: 4252887

4

Grantee(s): (Buyer) **J. R. Johnson and Ida Myrtle Johnson**

Grantor(s): (Seller) **B. G. Owen and Jessie M. Owen**

Conveys: Parcel of Land

Date Executed: March 26, 1947
Date Recorded: March 26, 1947
Document Number: 3670351

5

Grantee(s): (Buyer) **J. R. Johnson**

Grantor(s): (Seller) **Alonzo O. Nuetzel**

Conveys: Parcel of Land

Date Executed: February 17, 1947
Date Recorded: February 17, 1947
Document Number: 3658167

6

Grantee(s): (Buyer) **A. O. Nuetzel and Lottie Nuetzel**

Grantor(s): (Seller) **B. G. Owen and Jessie M. Owen**

Conveys: Parcel of Land

Date Executed: January 16, 1947
Date Recorded: January 16, 1947
Document Number: 3648388

7

Grantee(s): (Buyer) **A. O. Nuetzel**

Grantor(s): (Seller) **Lottie Nuetzel**

Conveys: Parcel of Land

Date Executed: February 25, 1943
Date Recorded: February 25, 1943
Document Number: 3293526

8

Grantee(s): (Buyer) **B. G. Owen and Jessie M. Owen**

Grantor(s): (Seller) **Harry M. Webb and Bertha L. Webb**

Conveys: Parcel of Land

Date Executed:	August 4, 1941
Date Recorded:	August 4, 1941
Document Number:	3182284

EXAMINER'S NOTE

Public Records of King County, Washington were searched from January 1, 1940 to September 28, 2016, and no other deeds vesting title in the subject property were found of record during the period searched.

ENVIRONMENTAL LIENS

Public Records of King County, Washington were searched from January 1, 1940 to September 28, 2016, and no environmental liens on the subject property were found of record during the period searched.

AUL'S

Public Records of King County, Washington were searched from January 1, 1940 to September 28, 2016, and no activity or use limitations on the subject property were found of record during the period searched.

EASEMENTS

Public Records of King County, Washington were searched from January 1, 1940 to September 28, 2016, and no easements on the subject property were found of record during the period searched.

LEGAL DESCRIPTION

Legal description included on Exhibit "C".

THE FOX GROUP SEARCH RESULTS

CHAIN AND ENVIRONMENTAL LIENS

Subject: **SOUTH PARK MARINA ALLOCATION TECHNICAL SUPPORT**
8500 DALLAS AVENUE SOUTH
SEATTLE, WASINGTON 98108

Public records on the subject real property identified above revealed the following information effective to September 28, 2016:

ASSESSMENT

Location: **King County**

Land/Description: Parcel of Land
Parcel No.218560-0070

DEEDS

1

Grantee(s): (Buyer) **South Park Marina Limited Partnership**

Grantor(s): (Seller) **Willard S. Crow and Rose Marie Crow**

Conveys: Parcel of Land

Date Executed:	February 9, 1993
Date Recorded:	February 18, 1993
Document Number:	9302181741

NOTE: Copy attached as Exhibit “D”.

2

Grantee(s): (Buyer) **Willard S. Crow and Rose Marie Crow**

Grantor(s): (Seller) **Susie McGee**

Conveys: Parcel of Land

Date Executed: March 16, 1983
Date Recorded: March 16, 1983
Document Number: 8303160665

3

Grantee(s): (Buyer) **Willard S. Crow and Rose Marie Crow**

Grantor(s): (Seller) **William S. McGee and Susie McGee**

Conveys: Parcel of Land

Date Executed: July 24, 1962
Date Recorded: July 24, 1962
Document Number: 5456343

4

Grantee(s): (Buyer) **William S. McGee and Susie McGee**

Grantor(s): (Seller) **Samuel Trenholm and Annie Trenholm**

Conveys: Parcel of Land

Date Executed: December 30, 1936
Date Recorded: January 8, 1937
Document Number: 2925202

EXAMINER'S NOTE

Public Records of King County, Washington were searched from January 1, 1940 to September 28, 2016, and no other deeds vesting title in the subject property were found of record during the period searched.

ENVIRONMENTAL LIENS

Public Records of King County, Washington were searched from January 1, 1940 to September 28, 2016, and no environmental liens on the subject property were found of record during the period searched.

AUL'S

Public Records of King County, Washington were searched from January 1, 1940 to September 28, 2016, and no activity or use limitations on the subject property were found of record during the period searched.

EASEMENTS

Public Records of King County, Washington were searched from January 1, 1940 to September 28, 2016, and no easements on the subject property were found of record during the period searched.

LEGAL DESCRIPTION

Legal description included on Exhibit "D".

GENERAL COMMENTS

This concludes the investigation on the above captioned. Again, should you have any questions, please feel free to contact your sales representative, (504) 400-0569.

DISCLAIMER

The Fox Group LLC is a licensed and a registered legal entity in the State of Louisiana. The Fox Group LLC reports contain public record information, which its accuracy cannot be guaranteed. The Fox Group LLC follows all regulated Federal and State laws. This report should not be interpreted to quality for any credit, insurance or employment decisions pertaining to the Fair Credit Reporting Act (15 USC 1681, et seq)

This information contains confidential and privileged information. This information is intended only for "ABC Companies" named above. If you are not the intended recipient, be aware that any disclosure, copying, reproduction, or distribution of this document and its content is strictly prohibited.

EXHIBIT

A

QUIT-CLAIM DEED

STATUTORY FORM

THE GRANTOR(S) WILLARD S. CROW AND ROSE MARIE CROW
of 3803 120th S.E., City of Bellevue,
County of King, Washington, for and in consideration of None - Family Partnership
convey and quit-claim to South Park Marina Limited Partnership
of 8604 Dallas Avenue South, City of Seattle,
County of King, State of Washington, all interest in the following described Real Estate:

That portion of the Southwest quarter of the Northwest quarter of Section 33, Township 24 North, Range 4 East, W.M., described as follows:

Commencing at the intersection of the West line of said subdivision with the Southwesterly right-of-way line of Commercial Waterway District Number 1,

thence South 49°0'0" East along said right-of-way 238.22 feet to the true point of beginning;

thence continuing South 49°0'0" East along said right of way 159.44 feet;

thence South 30°49'10" West 151.75 feet to the existing Northerly boundary of Dallas Avenue;

thence North 69°59'59" West 177.33 feet;

thence North 0°59'15" West 15.29 feet;

thence North 38°01'57" East 201.83 feet to the point of beginning.

situated in the County of King, State of Washington. Dated this 9th day of February 1993.

Willard S. Crow
Rose Marie Crow
Grantor(s)

NOTARY ACKNOWLEDGMENT

STATE OF Washington }
County of King } ss.

(INDIVIDUAL ACKNOWLEDGMENT)

I, RUTH A. Schafer, Notary Public in and for the State of Washington, do hereby certify that on this 16th day of February 1993, personally appeared before me Willard Crow & Rose Marie Crow to me known to be the individual S described in and who executed the within instrument and acknowledged that They signed the same as their free and voluntary act and deed for the uses and purposes herein mentioned.

Signed and sworn to before me this 16th day of February 1993.

RUTH A. SCHAFER
NOTARY PUBLIC
STATE OF WASHINGTON
COMMISSION EXPIRES 1-6-95

Ruth A. Schafer
Notary Public in and for the State of Washington
My appointment expires: 1-6-95

Quit-Claim Deed (Statutory Form)
Washington Legal Blank, Inc., Issaquah, WA Form No. 289 7/91
MATERIAL MAY NOT BE REPRODUCED IN WHOLE OR IN PART IN ANY FORM WHATSOEVER

93021817 44 02/18/1993 02:28:00 PM KING COUNTY RECORDS 001 $10.00

E1294064 02/18/1993 02:28:00 PM KING COUNTY RECORDS 001 $10.00

93021817 44 02/18/1993 02:28:00 PM KING COUNTY RECORDS 001 $10.00

93021817 44

25

EXHIBIT B

QUIT-CLAIM DEED

Phillips

STATUTORY FORM

THE GRANTOR(S) WILLARD S. CROW AND ROSE MARIE CROW
of 3803 120th S.E., City of Bellevue,
County of King, Washington, for and in consideration of None - Family Partnership
convey and quit-claim to SOUTH PARK MARINA LIMITED PARTNERSHIP
of 8604 Dallas Avenue South, City of Seattle,
County of King, State of Washington, all interest in the following described Real Estate:

See Attachment for Legal Description

9302181743

E1294063 02/18/1993 .00 .00

PARCEL "A":

That portion of the John Buckley Donation Land Claim in Township 24, Range 4 East W.M., described as follows:

Beginning at the intersection of the West line of the Southwest ¼ of the Northwest ¼ in Section 33, Township 24 North, Range 4 East W.M. with the Southwesterly line of Duwamish Waterway Right of Way;
thence South 49°00'00" East 238.22 feet;
thence South 38°01'57" West 201.83 feet;
thence North to a point 825 feet South of the North line of said Donation Claim;
thence West 50 feet to the East Line of Lot 1 in Block 1 of Replat of Blocks 13 and 14 East South Park Addition, as per plat recorded in Volume 16 of Plats, page 69; records of King County;
thence North along said East line to point of beginning;

PARCEL "B";

That portion of the John Buckley Donation Land Claim in Township 24, Range 4 East W.M., described as follows:

Beginning at the Southweast corner of Lot 1 in Block 1, Replat of Blocks 13 and 14 East south Park Addition, as per plat recorded in Volume 16 of Plats, page 69, records of King county,
thence North along the East line of said Lot 1, a distance of 57.70 feet to intersect a line 825 feet South of the North line of said Donation Land Claim;
thence East along said line 50 feet;
thence South parallel to said East line of Lot 1 to the North line of Dallas Avenue as platted in South Park Heights, as per plat record in Volume 8 of Plats, page 52, records of King County,
thence Northwesterly along said North line to intersect East line of said Lot 1, produced South;
thence North along said produced line to point of beginning

Situate in the County of King, State of Washington

9302181743 02:28:00 PM KING COUNTY RECORDS 002 R10 8.00

situated in the County of King, State of Washington. Dated this 9th day of February 1993.

Willard A. Crow
Rose Marie Crow
Grantor[s]

NOTARY ACKNOWLEDGMENT

9302181743

STATE OF Washington)
County of King) ss.

(INDIVIDUAL ACKNOWLEDGMENT)

I, Ruth A. Schafer, Notary Public in and for the State of Washington, do hereby certify that on this 16th day of February 1993, personally appeared before me Willard Crow & Rose Marie Crow me known to be the individual s described in and who executed the within instrument and acknowledged that they signed the same as their free and voluntary act and deed for the uses and purposes herein mentioned.

Signed and sworn to before me this 16th day of February 1993.

RUTH A. SCHAFER
COMMISSION EXPIRES
NOTARY PUBLIC
1-6-95
STATE OF WASHINGTON

Ruth A. Schafer
Notary Public in and for the State of Washington
My appointment expires: 1-6-95

Quit-Claim Deed (Statutory Form)
Washington Legal Blank, Inc., Issaquah, WA Form No. 289 7/91
MATERIAL MAY NOT BE REPRODUCED IN WHOLE OR IN PART IN ANY FORM WHATSOEVER.

02/18/1993 5394863 .00

EXHIBIT C

QUIT-CLAIM DEED

STATUTORY FORM

THE GRANTOR(s) WILLARD S. CROW AND ROSE MARIE CROW
of 3803 120th S.E., City of Bellevue,
County of King, Washington, for and in consideration of None - Family Partnership
convey and quit-claim to South Park Marina Limited Partnership
of 8604 Dallas Avenue South, City of Seattle,
County of King, State of Washington, all interest in the following described Real Estate:

Lots 1 to 7, inclusive, and Lots 9 to 12 inclusive, Block 1, Replat of Blocks 13 and 14 East South Park, according to plat thereof recorded in Volume 16 of plats, page 69, records of said county; EXCEPT that portion of said lot 7 conveyed to King County for right of way 14th Avenue South Bridge relocation by deed recorded under auditor's file No. 2562653, records of said county; and EXCEPT that portion of said lots 9 to 12, inclusive, conveyed to Commercial Waterway District No. 1 by deeds recorded under Auditor's file Nos. 808122 and 809621, records of said county; ALSO any portion of lot 8, said block 1, not conveyed to King Country for 14th Avenue South Bridge RElocation by deed recorded under auditor's file No. 2562654, records of said county.

This deed shall be construed to be a Quit Claim Deed as to the portion of Lot 8 above described.

9302181740

.00 .00

E1294060 02/18/1993

situated in the County of KING, State of Washington. Dated this 9th day of February, 1993.

Willard S. Crow
Rose Marie Crow
(Grantor(s))

NOTARY ACKNOWLEDGMENT

STATE OF Washington)
ss. (INDIVIDUAL ACKNOWLEDGMENT)
County of King)

I, Ruth A Schafer, Notary Public in and for the State of Washington, do hereby certify that on this 16th day of February 1993, personally appeared before me Willard Crow + Rose Marie Crow to me known to be the individual S described in and who executed the within instrument and acknowledged that They signed the same as Their free and voluntary act and deed for the uses and purposes herein mentioned.

Signed and sworn to before me this 16th day of February 1993.

RUTH A. SCHAFER NOTARY PUBLIC STATE OF WASHINGTON COMMISSION EXPIRES 1-6-95

Ruth A Schafer
Notary Public in and for the State of Washington
My appointment expires: 1-6-95

Quit-Claim Deed (Statutory Form)
Washington Legal Blank, Inc., Issaquah, WA Form No. 289 7/91
MATERIAL MAY NOT BE REPRODUCED IN WHOLE OR IN PART IN ANY FORM WHATSOEVER.

9302181740 02:28:00 PM KING COUNTY RECORDS 001 RTD 7.00

EXHIBIT D

QUIT-CLAIM DEED

STATUTORY FORM

THE GRANTOR(S) WILLARD S. CROW AND ROSE MARIE CROW
of 3803 120th S.E., City of Bellevue,
County of King, Washington, for and in consideration of None - Family Partnership
convey and quit-claim to South Park Marina Limited Partnership
of 8604 Dallas Avenue South, City of Seattle,
County of King, State of Washington, all interest in the following described Real Estate:

Lots 13 and 14 in Block 1 of Replat of Blocks 13 and 14 East South Park, as per plat recorded in Volume 16 of Plats, page 69, records of King County, EXCEPTING that portion of said Lot 14 deeded to King County for road; situate in the County of King, State of Washinton.

9302181741

E1294061 02/18/1993 .00 .00

situated in the County of KING, State of Washington. Dated this 9th day of February, 1993.

Willard S Crow
Rose Marie Crow
Grantor(s)

NOTARY ACKNOWLEDGMENT

STATE OF Washington)
ss. (INDIVIDUAL ACKNOWLEDGMENT)
County of King)

I, RUTH A. Schafer, Notary Public in and for the State of WAshington, do hereby certify that on this 16th day of February, 1993, personally appeared before me Willard Crow & Rose Marie Crow to me known to be the individual S described in and who executed the within instrument and acknowledged that They signed the same as Their free and voluntary act and deed for the uses and purposes herein mentioned.

Signed and sworn to before me this 16th day of February, 1993

RUTH A. SCHAFER NOTARY PUBLIC STATE OF WASHINGTON COMMISSION EXPIRES 1-6-95

Ruth A. Schafer
Notary Public in and for the State of Washington
My appointment expires: 1-6-95

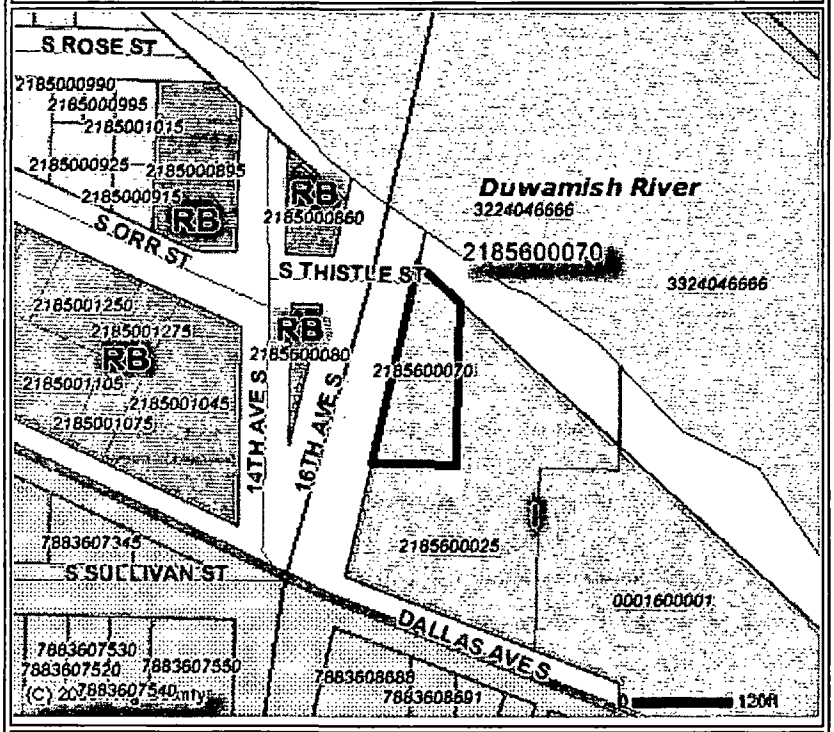
Quit-Claim Deed (Statutory Form)
Washington Legal Blank, Inc., Issaquah, WA Form No. 289 7/91
MATERIAL MAY NOT BE REPRODUCED IN WHOLE OR IN PART IN ANY FORM WHATSOEVER.

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12.3.81
8-29-06

King County | Home | News | Services | Comments | Search

Parcel Map and Data



Parcel Number	2185600070
Address	1415 S THISTLE ST
Zipcode	
Taxpayer	SOUTH PARK MARINE LTD PARTN

The information included on this map has been compiled by King County staff from a variety of sources and is subject to change without notice. King County makes no representations or warranties, express or implied, as to accuracy, completeness, timeliness, or rights to the use of such information. King County shall not be liable for any general, special, indirect, incidental, or consequential damages including, but not limited to, lost revenues or lost profits resulting from the use or misuse of the information contained on this map. Any sale of this map or information on this map is prohibited except by written permission of King County."

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you expressly agree to be bound by terms and conditions of the site.
The details.

USEPA SF
1256001

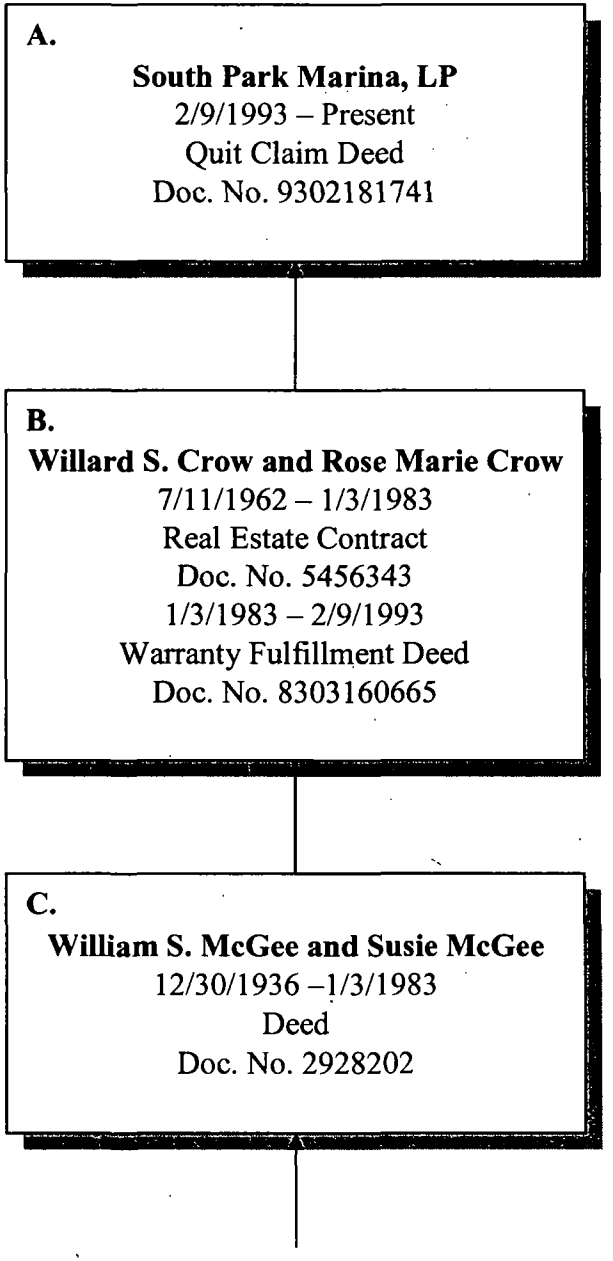
BAH PARCEL 99 (# 2185600070)

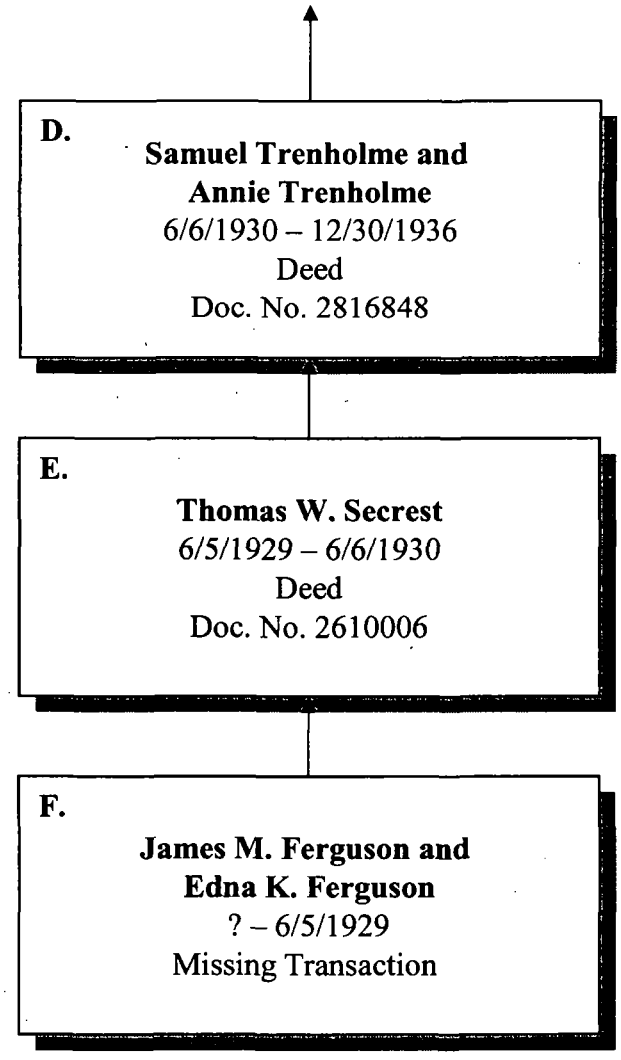
LEGAL DESCRIPTION:

LOTS 13 AND 14, BLOCK 1, REPLAT OF BLOCKS 13 AND 14, EAST SOUTH PARK, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 16 OF PLATS, PAGE(S) 69, RECORDS OF KING COUNTY, WASHINGTON.

EXCEPT THAT PORTION OF LOT 14 DEEDED TO KING COUNTY FOR ROAD.

BAH Parcel 99 (No. 2185600070) Title Tree




D.
Samuel Trenholme and
Annie Trenholme
6/6/1930 – 12/30/1936
Deed
Doc. No. 2816848
E.
Thomas W. Secrest
6/5/1929 – 6/6/1930
Deed
Doc. No. 2610006
F.
James M. Ferguson and
Edna K. Ferguson
? – 6/5/1929
Missing Transaction

QUIT-CLAIM DEED

STATUTORY FORM

THE GRANTOR(S) WILLARD S. CROW AND ROSE MARIE CROW
of 3803 120th S.E., City of Bellevue,
County of King, Washington, for and in consideration of None - Family Partnership
convey and quit-claim to South Park Marina Limited Partnership
of 8604 Dallas Avenue South, City of Seattle,
County of King, State of Washington, all interest in the following described Real Estate:

Lots 13 and 14 in Block 1 of Replat of Blocks 13 and 14 East South Park, as per plat recorded in Volume 16 of Plats, page 69, records of King County, EXCEPTING that portion of said Lot 14 deeded to King County For road; situate in the County of King, State of Washinton.

9302181741

E1294061 02/18/1993 .00 .00

situated in the County of KING, State of Washington. Dated this 9th day of February, 1993.

Willard S. Crow
Rose Marie Crow
(Grantor[s])

NOTARY ACKNOWLEDGMENT

STATE OF Washington }
County of King } ss. (INDIVIDUAL ACKNOWLEDGMENT)

I, RUTH A. Schafer, Notary Public in and for the State of Washington, do hereby certify that on this 16th day of February, 1993, personally appeared before me Willard Crow & Rose Marie Crow to me known to be the individual S described in and who exe uted the within instrument and acknowledged that They signed the same as Their free and voluntary act and deed for the uses and purposes herein mentioned.

Signed and sworn to before me this 16th day of February, 1993

RUTH A. SCHAFER NOTARY PUBLIC STATE OF WASHINGTON COMMISSION EXPIRES 1-6-95

Ruth A. Schafer
Notary Public in and for the State of Washington
My appointment expires: 1-6-95

Quit-Claim Deed (Statutory Form)
Washington Legal Blank, Inc., Issaquah, WA Form No. 289 7/91
MATERIAL MAY NOT BE REPRODUCED IN WHOLE OR IN PART IN ANY FORM WHATSOEVER.

9302181741 02:28:00 PM KING COUNTY RECORDS 001 RLD .00

25 x 10

WARRANTY DEED
(STATUTORY FORM)

The Grantor, SUSIE McGEE

residing at 823 So Sullivan Street, Seattle, Washington 98108

for and in consideration of the sum of $24,000

Dollars ($),

in hand paid, CONVEY and WARRANT to WILLARD and ROSE CROW

, the Grantee,

the following described real estate:

8303160665

Lots Thirteen (13) and Fourteen (14) in Block One (1) of Replat of blocks 13 and 14 of East South Park as per plat recorded in volume 16 of plats, page 69, records of said county, EXCEPT that portion of said lot 14 deeded to King County for road and the buildings thereon.

KING COUNTY
NO EXCISE TAX
MAR 16 1983
E0711185

KING COUNTY
RECORDS & ELECTIONS
BY THE DIVISION OF

Mar 16 11 49 AM '83

RECORDED THIS DAY

83/03/16 #0665 E
RECD F 3.00
CASHSL ****3.00
22

situated in the County of King, State of Washington.

Dated this day of , 19

Susie O McGee

STATE OF WASHINGTON,
County of King } ss. (Individual Acknowledgment)

I, Dorothy Dehoguel, Notary Public in and for the State of Washington, do hereby certify that on this 3 day of January, 1983, personally appeared before me Susie O McGee to me known to be the individual described in and who executed the within instrument and acknowledged that she signed the same as her free and voluntary act and deed for the uses and purposes herein mentioned.

GIVEN UNDER MY HAND AND OFFICIAL SEAL this 3 day of January, 1983.

Notary Public in and for the State of Washington, residing at Kent in said County.

STATE OF WASHINGTON,
County of } ss. (Corporate Acknowlegment)

On this day of , 19, before me personally appeared

to me known to be the of the corporation that executed the within and foregoing instrument, and acknowledged said instrument to be the free and voluntary act and deed of said corporation, for the uses and purposes therein mentioned, and on oath stated that he authorized to execute said instrument and that the seal affixed is the corporate seal of said corporation.

IN WITNESS WHEREOF I have hereunto set my hand and affixed my official seal the day and year first above written.

Notary Public in and for the State of Washington, residing at in said County.

Warranty Deed (Statutory Form)
Washington Legal Blank Co., Bellevue, WA Form No. 31 8-78
MATERIAL MAY NOT BE REPRODUCED IN WHOLE OR IN PART IN ANY FORM WHATSOEVER

REAL ESTATE CONTRACT

5456343

THIS CONTRACT, made this 11th day of July, 1962 between

William S. McGee and Susie McGee, his wife, hereinafter called the "seller" and

Willard S. Crow and Rose Marie Crow, his wife, hereinafter called the "purchaser,"

WITNESSETH: The seller agrees to sell to the purchaser, and the purchaser agrees to purchase of the seller the following described real estate with the appurtenances, situate in King County, Washington:

Lots 13 and 14 in Block 1 of Replat of Block 13 and 14 East South Park, as per plat recorded in Volume 16 of Plats, page 69, records of King County, EXCEPTING that portion of said Lot 14 deeded to King County for road; situate in the County of King, State of Washington.

Free of incumbrances, except:

Subject to all easements, restrictions and reservations of record, if any.

On the following terms and conditions: The purchase price is - - - - - - - - - - - - - - - - TWENTY-FOUR THOUSAND and no/100- - - - - - - - - - - ($24,000.00) dollars, of which THREE THOUSAND and no/100- - - - - - - - - - - - - - - - - - - ($3,000.00) dollars has been paid, the receipt whereof is hereby acknowledged, and the purchaser agrees to pay the balance of said purchase price as follows:

One Hundred fifty and no/100- - - - - - - - - - - - - - - ($150.00) Dollars, or more at purchaser's option, on or before the 1st day of September 1962 and One Hundred fifty and no/100- - - - - - - - - - - - - - - ($150.00) Dollars, or more at purchaser's option, on or before the 1st day of each then succeeding calender month until the balance of said purchase price shall have been fully paid. The purchaser further agrees to pay interest on the balance of said purchase price and the diminishing amounts thereof at the rate of six per cent per annum from the 1st day of August 1962, which interest shall be deducted from each monthly installment and the balance of each installment applied in reduction of principal. All payments to be made hereunder shall be made at 823 South Sullivan Street - Seattle 8, Washington, or at such other place, as the seller may direct in writing.

SALES TAX LIEN PAID JUL 23 1962 A. A. TREMPER KING COUNTY TREASURER 476426

The purchaser agrees: (1) to pay before delinquency all payments of whatsoever nature required to be made upon or by virtue of said mortgage, if any; also all taxes and assessments which are above assumed by him, if any, and all which may, as between grantor and grantee, hereafter become a lien on the premises; and also all taxes which may hereafter be levied or imposed upon, or by reason of, this contract or the obligation thereby evidenced, or any part thereof; (2) to keep the buildings now and hereafter placed upon the premises unceasingly insured against loss or damage by fire, to the full insurable value thereof, in the name of the seller as owner, in an insurance company satisfactory to the seller for the benefit of the mortgagee, the seller, and the purchaser, as their interests may appear, until the purchase price is fully paid, and to deliver to seller the insurance policies, renewals, and premium receipts, except such as are required to be delivered to the mortgagee; (3) to keep the buildings and all other improvements upon the premises in good repair and not to permit waste; and (4) not to use the premises for any illegal purpose.

In the event that the purchaser shall fail to pay before delinquency any taxes or assessments or any payments required to be made on account of the mortgage, or to insure the premises as above provided, the seller may pay such taxes and assesements, make such payments, and effect such insurance, and the amounts paid therefor by him shall be deemed a part of the purchase price and become payable forthwith with interest at the rate of 10 per cent per annum until paid, without prejudice to other rights of seller by reason of such failure.

JUL 24 1962 830 Filed by PST

D Jan 8-37 2928199
Jan 8-37 $10. $2.50 irsx $2.50 s-t
George H.Storck and Emily L.Storck, hw
to J.Elsie Morrison, a spins
Fp cy and wrr to sp the fdre

Parts of Lots 8 and 9 Blk 141 A.A.Denny's Broadway Add to the C of S acc to vol 6 of plats pg 40 rec of kcw partic d f;
Baap on the sly ln of sd Lot 9 wch pt is 100 ft nely from the most swly cor of sd Lot 9, run th N and plw the wly margl ln of sd Lots 8 and 9 to the N ln of Lot 8, th E alg the N ln of sd Lot 8 to the ne cor thof, th S alg the ely m[illegible]l ln of sd Lot 8 to the se cor thof th SW and alg the nly margl ln of E Madison St to pob Togthr with the vac W 7 ft of Broadway Court adjoining, sit in kcw
Subj however to genl txx for yrs 1932 to 1935 inc wch gtee hin assumes and agree to pay.
George H.Storck
Emily L.Storck
kcw Jan 8-37 by George H.Storck and Emily L.Storck, hw bef L.Cristopher np for sw res at s ns May 9-39 (Ml sp Groveland, N Y)

D Jan 8-37 2928200
Aug 20-36 $10.
Philip A.Schaeffer, Trustee and Anna E.Schaeffer, hw of s kcw
to Henry C.Pigott, of kcw
Fp cy and qc to sp all int in the fdre

930 ft of the E ptn of N 399.34 ft of the S 612.74 ft of Lot 3 Sec 2 Tp 23 nr 3 ewm except 44th Ave SW and Marine View Drive and any and all sts htofore cond or taken from the above des prop for st and road purp sit in kcw
Subj to all txx and assmts of ever_ kind and nature agst the above des prop ~~ex~~
Philip A.Schaeffer, Trustee
Anna E.Schaeffer
kcw Aug 21-36 by Philip A.Schaeffer, Trustee and Anna E.Schaeffer, bef Ida J.Holland np for sw res at s ns Jan 10-39 (Ml sp c/a Pigott Printing Co. 1st University)

D Jan 8-37 2928201
Aug 21-36 $10. $1. irsx $1. s-t
Henry C.Pigott and Juliet Pigott, hw of s-w
to Edward L.Rasmussen
Fp cy and wrr to sp the fdre

The N 60 ft of the S 612.74 ft of the E 930 ft ~~of~~ lying betw44th Ave SW and Marine View Drive being part of Lot 3 Sec 2 Tp 23 nr 3 ewm sit in kcw Subj to all unpd txx and assmts
Henry C.Pigott
Juliet Pigott
kcw Jan 7-37 by Henry C.Pigott and Juliet Pigott, bef W.E.Froude np for sw res at s ns Apr 25-40 (Ml sp 4409 102nd St SW Seattle)

D Jan 8-37 2928202
Dec 30-36 $1.
Samuel Trenholm and Annie Trenholm, hw
to William S.McGee and Susie McGee, hw
Fp cy and wrr to sp the fdre in kcw

Lots 13 and 14 in Blk 1 of Replat of Blks 13 and 14 of East South Park as per vol 16 of plats pg 69 rec of sd Co except tht ptn of sd Lot 14 deeded to kc for road
Subj to a mtg exc by sd gtors to H O Loan Corp tsp of $942.51 and int rec in vol 1289 of mtgs pg 233 under and file No 2816849 rec of sd Co wch the gtee hin assumes and agree to pay.
This conveyance is also made subj to the rt and priv of sd gtors or either of them to use and occupy the dwelling sit on sd prem as their home, during their lifetime, also to retain for their
(S)

SM Aug 31 34
Aug 10 34
New York Life Insurance Company
to Ralph K Smith ashis sepest

1290 2816846
201

fp rels and satsmtgemt heldby sytoSecurities Mortgage Company Jan 15 32, tsp 3550 and recin vol 1185 DE DS pg 456, recs of said of sd co, with debt secdthby, and ass Tp [illegible] 5%, asmt recin sd ofc in vol 1182 M p 379,
Inwit wh sd corphas csd this inst tobe exe by its duly authd ofcr and its corpsal tobe affxd
(corsl) New York Life Insurance Company
By Charles H Langmuir vicepres

NY Co NYAug 10 34 by Charles H Langmuir vicepres of sd corp(bf MarionConway np comexpth 30 36(NS) ml pstico (2706988)

1284
229 2816847
45-D

M Aug 31 34
Aug 18 34 $4485.
Herbert H Dingley and Grace M Dingley hwf ofskcw
to Home Owners Loan Corporation--sa2801268

fp--lot 14, blk 1 of Lovegren's Add as per plat recinvol 12 plaats pg 26, recsofkcw
tgw--$4485.--5%pa--$35.47---$4485.---5%pa--
Herbert H Dingley
Grace M Dingley

Santa Clara CoCalf Aug 21 34 by Herbert H Dingley andGrace M Dingley hwf bf Maud A Stratten np Calf resat Palo Alto (NS) comOct 25 36) ml spfld bypstico

---

1596
374 2816848

D Aug 31 34
Jun 6 30 $10 $1.50 irsx
Thomas W Secrest and Harriet G Secrest hwf
to Samuel Renholme and Annie Trenholme hwf

fp cyand war tospflg desre sit inkcw;

lots 13 and 14 blk 1 Replatof Blocks 13 and 14, of East South Park lessporn dd for st purps
Vendors agree tomove the esisting house to a suitable loc on abv lots and to do ev ything necessary in inconnectiontherewith at their own cost and expensex
Thomas W Secrest
Harriet G Secrest

kcw Jun 6 30 by Thomas W SecrestandHarriet G Secrest hwf bf Norman Mostue npnresats(NSfeb 7 35)mlpstico

---

Cont Jun 6 1930 12-39 449 2610005
Dec 16 1929
Albin Johnson and Hulda Johnson hwf, and Carl R Johnson and Emma Johnson hwf,
to Chas J Horn
fp agrees to sell to and sp agrees to purch ~~of f p f h i in kcw~~

south 4f ft of lots 4 5 and 6 blk 10 Hutchinson's Second Divn of Green Lake add to thecs, wn accdg to plat recdd in vol 6 of plats pg 39 recs of kcw;
the pp of sd prems is $6750 of wch $500 is pd, receipted, and the bal of the pp of $5250 to be pd as fols;
$3200 by the assumption of amtg now against the pty wch the purchr assumes and agrees to pay;
the bal of the pp of $2050 to be pd $47.50 on Jan 20 1930 and like amt on the 20th of each mth thafter up to and incl Dec 16 1931; at that tm and thafter the mthly payts shall be increased to $52.50 per mth to be pd on the 20th of each and every mth thafter until the total bal due hunder of $2050 is fully pd, with int on deifrd payts at 7% per an; sd mthly payts are to incl int on mtg and int on mthly cont, and to be applied first on the mtg int, 2ndly on the accrued int on the cont, and the bal in reducing the prin sum; The purchr assumes and agrees to pay the unrecdd paving assts wch are now a lien against the above des pty
sp to pay all taxes, etc -- same as 2042009 -- to sigs

Chas J Horn
Albin Johnson sl
Hulda Johnson sl
by Albin Johnson her atty infact
Carl R Johnson
Emma Johnson
by Carl R Johnson her atty infact

kcw on Dec 17 1929 by Albin Johnson for himself, and as atty in fact of Hulda Johnson hwf, and on oath stated that the p of a authorizing the exe of this inst has not been revoked, and that the sd Hulda Johnson hwf, is now living, bef A Jack Baker, n p for wn res at s n s Jul 13 1931

kcw on Dec 17 1929 by Carl R Johnson for himself, and as atty in fact of Emma Johnson hwf, and on oath stated that the p of a authorizing the exe of this inst has not been revoked, and that the sd Emma Johnson hwf, is now living, bef A Jack Baker, n p for wn res at s n s Jul 13 1931
fld by C J Horn, 8102 4thave ne

D Fld Jun 6 1930 12-39 2610006
Jun 5 1930 $10
James M Ferguson and Edna K Ferguson hwf, 1466
to Thomas W Secrest 623
f p cy and dwar to sp the olg re est

lots 13 and 14, blk 1 Replat of blks 13 and 14 of East South Park leas portn deeded for st purps, and subj to the cont of sale to Samuel Trenholme, and Annie Trenholme, hwf, dtd Apr 15 1930 sit in k c w
James M Ferguson sl
Edna K Ferguson sl
kcw on Jun 6 1930 by James M Ferguson and Edna K Ferguson hwf, bef H E McMorris, n p for wn res at s n s Jan 28 1933
fld by Mail Puget Sound S& L Assn

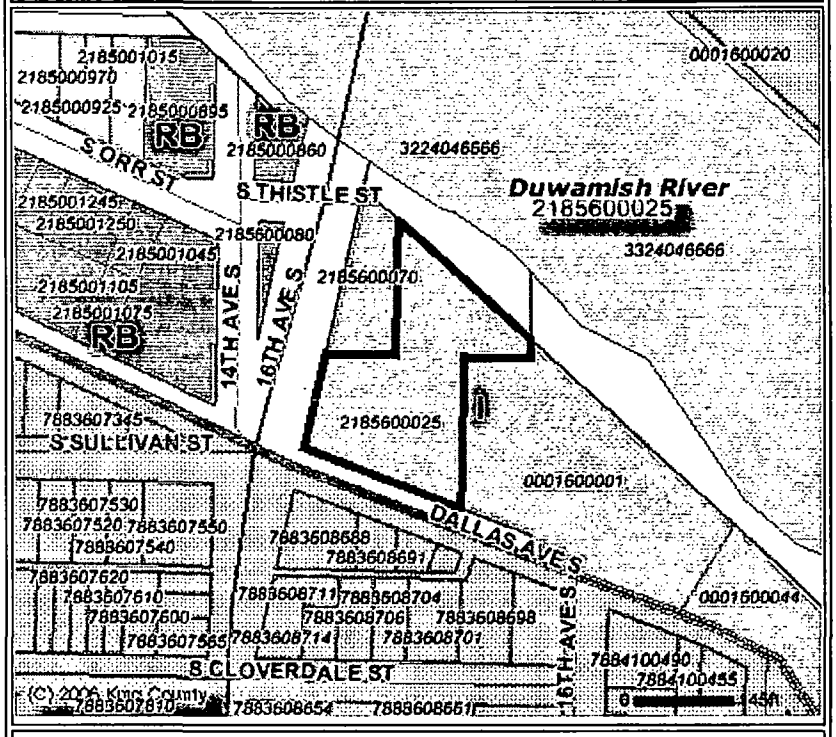
DFldJun 6 1930 12-57 2610007
Jun 3 1930 $10
K F Mench
to Lillian O Mench hwf 1961
fp cy and q c to sp all int in the folg re est 675

the north 39 ft of lot 3, blk 1 Lamb's add to thecs, wn accdg to plat recd in vol 28 of plats pg 13 of the recs of kcw, except the west 3 ft thof cond by thecs, for widening 8th ave nw, in k c supr c. cause No 212141 pursuant to ordn No 53674 of sd city as amended by ordr No 54013 and 55727 sit in kcw (FOR)

12381
8-29-06

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Parcel Map and Data



Parcel Number	2185600025
Address	8510 DALLAS AVE S
Zipcode	
Taxpayer	SOUTH PARK MARINE LTD PART

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you expressly agree to be bound by terms and conditions of the site.
The details.

USEPA SF
1256002

BAH PARCEL 100 (#2185600025)

LEGAL DESCRIPTION:

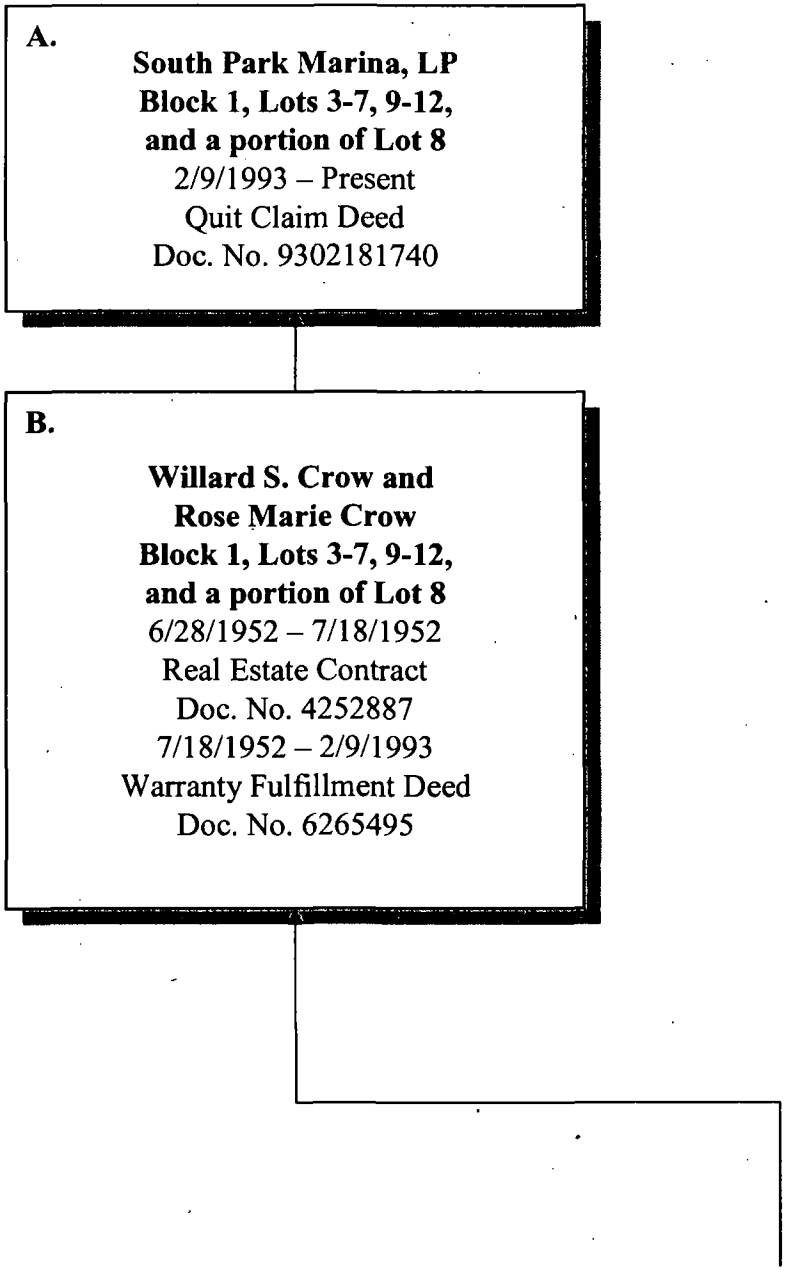
LOTS 3 THROUGH 7, INCLUSIVE AND LOTS 9 THROUGH 12, INCLUSIVE, BLOCK 1, REPLAT OF BLOCKS 13 AND 14, EAST SOUTH PARK, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 16 OF PLATS, PAGE(S) 69, RECORDS OF KING COUNTY, WASHINGTON.

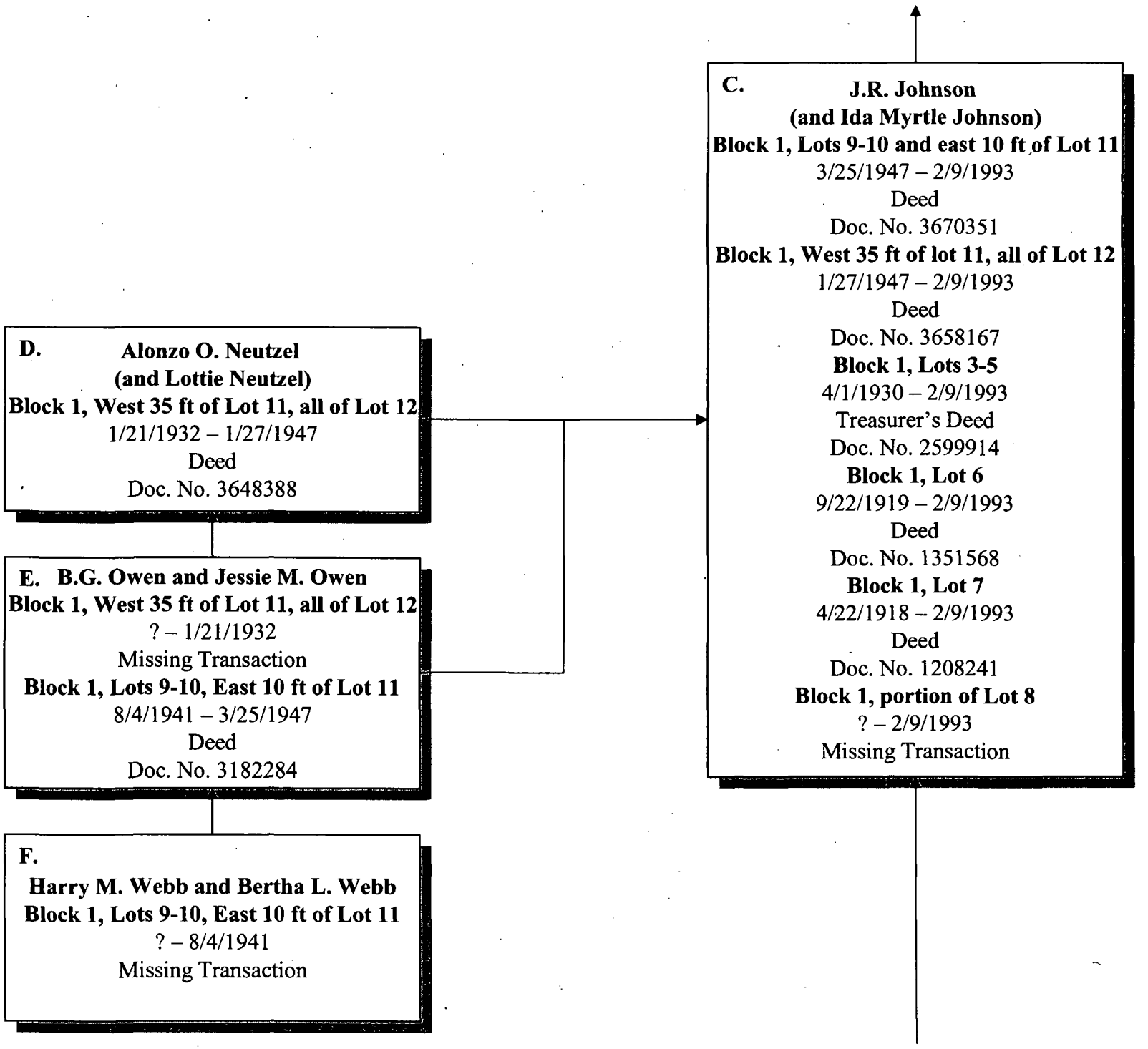
EXCEPT THAT PORTION OF SAID LOT 7 CONVEYED TO KING COUNTY FOR RIGHT OF WAY 14TH AVENUE SOUTH BRIDGE RELOCATION BY DEED RECORDED UNDER RECORDING NO. 2562653.

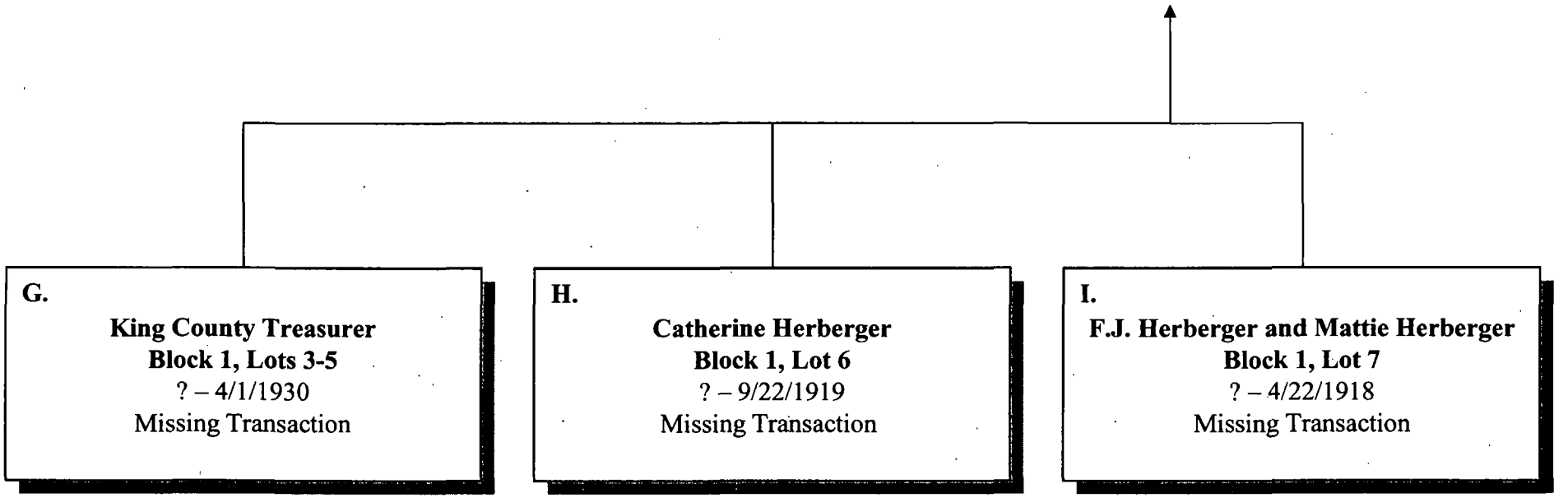
AND EXCEPT THAT PORTION OF SAID LOTS 9 THROUGH 12, CONVEYED TO COMMERCIAL WATERWAY DISTRICT NO. 1 BY DEED RECORDED UNDER RECORDING NO'S. 808122 AND 809621.

ALSO ANY PORTION OF LOT 8, SAID BLOCK 1, NOT CONVEYED TO KING COUNTY FOR 14TH AVENUE SOUTH BRIDGE RELOCATION BY DEED RECORDED UNDER RECORDING NO. 2562654.

Parcel 100 (No. 2185600025) Title Tree




C.
J.R. Johnson
(and Ida Myrtle Johnson)
Block 1, Lots 9-10 and east 10 ft of Lot 11
3/25/1947 – 2/9/1993
Deed
Doc. No. 3670351
Block 1, West 35 ft of lot 11, all of Lot 12
1/27/1947 – 2/9/1993
Deed
Doc. No. 3658167
Block 1, Lots 3-5
4/1/1930 – 2/9/1993
Treasurer's Deed
Doc. No. 2599914
Block 1, Lot 6
9/22/1919 – 2/9/1993
Deed
Doc. No. 1351568
Block 1, Lot 7
4/22/1918 – 2/9/1993
Deed
Doc. No. 1208241
Block 1, portion of Lot 8
? – 2/9/1993
Missing Transaction
D.
Alonzo O. Neutzel
(and Lottie Neutzel)
Block 1, West 35 ft of Lot 11, all of Lot 12
1/21/1932 – 1/27/1947
Deed
Doc. No. 3648388
E. B.G. Owen and Jessie M. Owen
Block 1, West 35 ft of Lot 11, all of Lot 12
? – 1/21/1932
Missing Transaction
Block 1, Lots 9-10, East 10 ft of Lot 11
8/4/1941 – 3/25/1947
Deed
Doc. No. 3182284
F.
Harry M. Webb and Bertha L. Webb
Block 1, Lots 9-10, East 10 ft of Lot 11
? – 8/4/1941
Missing Transaction


G.
King County Treasurer
Block 1, Lots 3-5
? – 4/1/1930
Missing Transaction
H.
Catherine Herberger
Block 1, Lot 6
? – 9/22/1919
Missing Transaction
I.
F.J. Herberger and Mattie Herberger
Block 1, Lot 7
? – 4/22/1918
Missing Transaction

QUIT-CLAIM DEED

STATUTORY FORM

THE GRANTOR(S) WILLARD S. CROW AND ROSE MARIE CROW
of 3803 120th S.E., City of Bellevue,
County of King, Washington, for and in consideration of None - Family Partnership
convey and quit-claim to South Park Marina Limited Partnership
of 8604 Dallas Avenue South, City of Seattle,
County of King, State of Washington, all interest in the following described Real Estate:

9302181740

Lots 1 to 7, inclusive, and Lots 9 to 12 inclusive, Block 1, Replat of Blocks 13 and 14 East South Park, according to plat thereof recorded in Volume 16 of plats, page 69, records of said county; EXCEPT that portion of said lot 7 conveyed to King County for right of way 14th Avenue South Bridge relocation by deed recorded under auditor's file No. 2562653, records of said county; and EXCEPT that portion of said lots 9 to 12, inclusive, conveyed to Commercial Waterway District No. 1 by deeds recorded under Auditor's file Nos. 808122 and 809621, records of said county; ALSO any portion of lot 8, said block 1, not conveyed to King Country for 14th Avenue South Bridge RElocation by deed recorded under auditor's file No. 2562654, records of said county.

This deed shall be construed to be a Quit Claim Deed as to the portion of Lot 8 above described.

E1294060 02/18/1993 .00 .00

situated in the County of KING, State of Washington. Dated this 9th day of February, 1993.

Willard S. Crow
Rose Marie Crow
Grantor(s)

NOTARY ACKNOWLEDGMENT

STATE OF Washington)
County of King) ss. (INDIVIDUAL ACKNOWLEDGMENT)

I, RUTH A Schafer, Notary Public in and for the State of Washington, do hereby certify that on this 16th day of February, 1993, personally appeared before me Willard Crow + Rose Marie Crow to me known to be the individual S described in and who executed the within instrument and acknowledged that They signed the same as Their free and voluntary act and deed for the uses and purposes herein mentioned.

Signed and sworn to before me this 16th day of February, 1993.

RUTH A. SCHAFER NOTARY PUBLIC STATE OF WASHINGTON COMMISSION EXPIRES 1-6-95

Ruth A Schafer
Notary Public in and for the State of Washington
My appointment expires: 1-6-95

Quit-Claim Deed (Statutory Form)
Washington Legal Blank, Inc., Issaquah, WA Form No. 289 7/81
MATERIAL MAY NOT BE REPRODUCED IN WHOLE OR IN PART IN ANY FORM WHATSOEVER.

7.00

9302181740 02/18/93 01:28:00 PM KING COUNTY RECORDS 001 RTD

25

Statutory Warranty Deed — — RF 2.00

6265495

NOV-15-67 $.000000

FILED for [illegible] at Request of [illegible] 15 AM 10 40

Name Willard S. Crow

Address 3712-120th S.E.

Bellevue, Wash. 98004

RECORDED
VOL.....
PAGE..... REQUEST OF

ROBERT A. ... KING COUNTY WASH.
BY ..... DEPUTY

WASHINGTON TITLE INSURANCE COMPANY
SEATTLE, WASHINGTON

Mail to 6508 71st St. Stanwood, Wash. 98292

Statutory Warranty Deed

THE GRANTOR J. R. JOHNSON and IDA MYRTLE JOHNSON

for and in consideration of $10.00 and other valuable consideration

in hand paid, conveys and warrants to WILLARD S. CROW and ROSE MARIE CROW

the following described real estate, situated in the County of King, State of Washington:

Lots 1 to 7, inclusive, and lots 9 to 12 inclusive, Block 1, Replat of Blocks 13 and 14 East South Park, according to plat thereof recorded in Volume 16 of plats, page 69, records of said county; EXCEPT that portion of said lot 7 conveyed to King County for right of way 14th Avenue South Bridge relocation by deed recorded under auditor's file No. 2562653, records of said county; and EXCEPT that portion of said lots 9 to 12, inclusive, conveyed to Comercial Waterway District No. 1 by deeds recorded under Auditor's file Nos. 808122 and 809621, records of said County; ALSO any portion of lot 8, said block 1, not conveyed to King County for 14th Avenue South Bridge Relocation by deed recorded under auditor's file No. 2562654, records of said county.

NOV 15 1967

This deed shall be construed to be a Quit Claim Deed as to the portion of Lot 8 above described.

This deed is in fulfillment of that certain Real Estate Contract between the parties hereto executed the 28th day of June, 1952.

Dated this 18th day of July, 1952

NOV 15 1967

J R Johnson (SEAL)

Ida Myrtle Johnson (SEAL)

STATE OF WASHINGTON, } ss.
County of King

On this day personally appeared before me J. R. JOHNSON and IDA MYRTLE JOHNSON to me known to be the individual s described in and who executed the within and foregoing instrument, and acknowledged that they signed the same as their free and voluntary act and deed, for the uses and purposes therein mentioned.

GIVEN under my hand and official seal this 18th day of July, 1952

Notary Public in and for the State of Washington residing at Seattle

SALES TAX PAID ON CONTRACT AFF. NO E52409
M. J. R. WILLIAMS, KING COUNTY TREASURER
BY M. J. Robinson DEPUTY

NOV 15 1967

NOV 15 1967

Cont Jul 11-52 4252887
Jun 28-52 (TAX PD 52409)
J.R.Johnson and Ida Myrtle Johnson hw
to Willard S.Crow and Rose Marie Crow hw
Ep agree to sell and sp agree to pur the fdre lnkcw

Lots 1 to 7 inc and Lots 9 to 12 inc Blk 1 Replat of
Blks 13 and 14 East South Park, acc to platthof rec invol
16 of plats pg 69 rec of sd Co, except tht ptn of sd Lot 7
conveyed to kc for rt of way 14th Ave S Bridge, relocation
by deed rec under aud file No 2562653 rec of sd Co, and except
tht ptn of sd Lots 9 to 12 inc eyed to Commercial Waterwat
Dist No 1 by deeds rec under aud file No 808122
and 809621 rec of sd Co
Also any ptn of Lot 8 sd Blk 1 not eyed to kc for 14th
Ave S Bridge Relocation by deed rec under aud file No 2562654
rec of sd Co
Togthr with gas service station equip ent acc to lease betw
the sellers hin and Union Oil Co of Cal as lessee dtd May 19-
50; gas tanks loc in trailer utility house and miscls garden
equipment
The pp is $65,000. of wch $14,000. has been pd rect aded and bal
$51,000. plus int at 5% pa pbl $400. or more on Aug 1-52
and inc int and $400. or more on the 1st of ~~Aug x 52 x inc~~
~~int~~each mo thafter until pd in full sd pmts to inc int
Pur shall not be permitted to pay more than $18,000.
In any one yr except the final

SM Mch 26 47 19-21-5 3670350 374
Mch 47
O. G. Miller, a sing man
to Arthur L. Wolfe and Nellie Mae Wolfe, hwf
Fp hldr of that mtg dtd Feb 10 40 exec by sp tsp $1050 accord to note dtd Feb 10 40 with int at 6% and rec Mch 2 40 vol 1605 Mpg 164 aud fl No 3088747 ack that sd mtg is fully sat and disch
O. G. Miller
kcw Mch 11 47 by O. G. Miller bf Wm. A. Eddleman np for the sw res at s ns Jan 19 49 (ml I. B. Knickerbocker , Central Bldg, Auburn)

D Mch 26 47 X 3670351 9603
Mch 25 47 $10 $1.10 irs $1 st 571
B. G. Owen and Jessie M. Owen, hwf
to J. R. Johnson and Ida Myrtle Johnson, hwf
Fp cy and war to sp the fl des re sit kcw

Lots 9 and 10 and the E 15 ft of Lot 11 blk 1 Replat of Blocks 13 and 14 East South Park accord to plt rec vol 16 plats pg 69 rec of ko Except ptns throf dd to Commercial Waterway Dist No 1 by inst rec undr aud fl No 809621 sit in kcw
Sub to ____ B G Owen
Jessie M. Owen
kcw Mch 26 47 by B.G.Owen and Jessie M. Owen, hwf bf Geo W. Farlin np for the sw res at s ns Aug 17 48 (ml sp Rt 2 Bx 2463 Edmonds Wn)

65
142

Lis Pend Mch 26 47 3670352
not dtd
In the Sup Crt of the St of Wn in and for KC No ~~Xxx~~ 382698
Lillian Irene Taylor, plff
-vs-
Herold R. Taylor, deft

Notice gvn that an actn has been com in abv entitledcourt for settlmt of pty rights of the parties hrin and praying that fl des pty sit kcw be awarded to plff

Lot 30 blk 11 Jefferson Park Add to the CofS, Div No 2

kn as $4109 15th Ave So in sd CofS, and for alimony attys fees and costs and for such other and further relief as may be meet and proper thrin E. W. Whiting, atty for plff 9643
(ml atty Dex Hor Blg) 573

~~Xxx~~ D Mch 26 47 3670353
Mch 24 47 $10
Minnie Caton, an unmrd woman
to A. B. Allen
Fp cy and qc to sp all int in the fl des re sit kcw

The S 40 ft of Lot 15 in blk 17 Renton Hill an Add to the CofS, as per plat rec vol 8 plats pg ~~12x~~ 68 rec of ko sit in the CofS, kcw
Minnie Caton, unmrd woman
kcw Mch 24 47 by Minnie Caton, an unmrd woman bf Herold Holifield np for the sw res at s ns Feb 1 49 (ml sp 1406 19th Ave)
---

kow Feb 13-47 by E.E.Cushing and C.W.Tewell pres and sec of sd corp (of) bf Boland Wilson np for s of w res at s (ns Mar 6-50) Ml to __ filed by STco

---

M Feb 17-47 1:59 3658165 GI

Feb 10-47

Robert R. May and Margaret E. May hwf
to Seattle Mgt Company a corp
Fp mgt to sp its s & a the folwgdes r e sit in kow

2178/475

Lot 2 blk 2 Maplewood Drv No 1 accord to plat thf rec in vol 39 of plats pg 24 rec of ko
Sub to:
1. Right of the pub to make all necess slopes for cuts or fills upon the lots blkds and tt of land shown on the plat as grant in the dedicat of the plat.
2. Restrict contain in the plat of sd add.
3. Declarat of Protect cov restrict andease rec and file 3385514 rec of ko
4. Ease for elec trans in as grant by instrum dt Apr 30-41 rec May 15-41 in vol 1968 of deeds pg 164 and file 3165102 rec of ko

together with all--same as 3635166--$6570.--4--sp--$39.81--Apr 1-47--Mar1-67--

Robert R. May
Margaret E. May

kow Feb 13-47 by Robert R. May and Margaret E. May bf Sarah M. Grannp for s of w res at s (ns Jul 2-48) Ml to sp filed by STco

---

M Feb 17-47 1:59 3658166 GI

2178/479

Feb 7-47

Lester D. McFadden a bachelor
to Seattle Mgt Company a corp
Fp mgt to sp its s & a the folwg des resit in kow

Lot 9 blk 6 Lafayette Place accord to plat thf rec in vol 13 of plats pg 102 rec of ko

together with all--same as 3635166--$6000.--4--sp--$36.36--Apr 1-47--Mar 1-67--

Lester D. McFadden

kow Feb 13-47 by Lester D. McFadden bf Sarah M. Gran np for s of w res at s (ns Jul 2-48) Ml to sp filed by STco

---

D Feb 17-47 3658167

2589/345

Jan 27-47 $10. &ovc-- $1.10irs $1.00st

Alonzo O. Nuetzel a divorced man as his sep prop
to J.H.Johnson a married man
Fp cy and war to sp the fol des re sit in kow

Lot 12 and the W 35 ft of lot 11 blk 1 of Replat of blks 13 & 14 E South Park as per plat rec in voll 16 of plats pg 69 rec of ko ex that por thftaken for Comm Water Dis No 1 sit in kow
sub to none.

Alonzo O. Nuetzel

co of Whatcom s of w Jan27-47lby Alonzo O.Nuetzel a divorced man bf W.B.Vander Griend np for s of w res at Lynden (ns Sep 14-47) Ml to sp Rt 2 Box 2463 Edmonds, Wn

---

cwm

Jan 15 47 vel rec 3648385
Carroll, Hillman and Hedlund, Inc., a crp V167
to Western Life Insurance Company 381
Fp g b s s t and so to sp that mtg dtd Oct 28 46 exec by Julia P. Parker, a wid to rp tsp $8000 and int and rec Oct 31 46 vol 2141 Mpg 506 sudfl No 3624206 tgw note thrby sec and the money due and to grow due thron with int.
iww sd crp has caused this inst to be exec by its proper ofcrs and its crp sl to be hrunto affx
Carroll, Hillman and Hedlund, Inc.
by Clarmnce A. Hardesty, v pres
crp sl by V. E. Roberts, asst secy
kcw Jan 15 47 by Clarence A. Hardesty and V. E. Roberts vpres and asst secy of sd crp(cf) bf Shirley H. Barnes np for the sw res at s ns Jul 11 49 (ml fp)(fld pstco)

D Jan 16 47 3648386
Dec 26 46 $10 ovc $13.75 irs $12.50 st
Ray E. Harris, and Ruth E. Harris, hwf V577
to Stanley Robert Field and Ethel Anne Field, hwf V50
Fp cy and war to sp the fl des re sit kcw

Lot 3 blk 15 Victory Heights as per plt rec vl 24 plats pg 22 rec of kc
Ray E. Harris
Ruth E. Harris
kcw Dec 26 46 by Ray E. Harris and Ruth E. Harris, hwf bf Neil A. McDougall np for the sw res at s ns Jun 11 50 (ml Equitable Sv Ln) (fld pstco)

M Jan 16 47 3648387
Dec 26 46
Stanley Robert Field and Ethel Anne Field, hwf V167
to Equitable Savings and Loan Association an Ore crp 382
Fp mtg to sp the fl des re sit kcw

Lot 3 in blk 15 of Victory Heights as per plat rec vol 24 plts pg 22 rec of kc sit in kcw

--sm frm as 2958576---tsp $5500 and int ned paybl in 180 equal mo payt com Jan 27 47 and any add advs---ins ~~$10~~ $5500---
Stanley Robert Field
Ethel Anne Field
kcw Dec 26 46 by Stanley Robert Field and Ethel Anne Field, hwf bf C. C. Kraig np for the sw res at s ns Apr 27 47 (ml sp)(fld pstco)

D Jan 16 47 3648388
Jan 21 32 $10 $1.65 irs $1.50 st V544
B.G. Owen and Jessie M. Owen, hwf V52
to A. O. Nuetzel and Lottie Nuetzel, hwf,
Fp cy and war to sp the fl des re sit kcw

W 35 ft of Lot 11, less Commercial Water Way No.1 and all of Lot 12 less Commercial Water Way No. 1, all in blk 1 of the Replat of Blocks 13 and 14 of East South Park Add to the CofS

Sub to free and clear of all encmbr, except instlmnts 9 and 10 of Assessment for Commercial Waterway Dist No. 1 won are pd with the txs
B. G. Owen
Jessie M. Owen
(cont RR)

1219
596
3182282

M aug 4 41
july 19 41
Nils G.Larson andWilma Brennen Larson hwf
to L.T.R Fischer and Gladys K. Fischer hwf
fp mtg to sp fd re sit kow

Vacated lot 6 andthe W ½ of vacated lot 5 in acre 4 in Blk 110 ofMaple leaf Addn to Green Lake Circle as per plat rkdd in vol 2 of plats pg 115 rkds of ko.

togwith fixtures tsp $200 xxx with int acc to a ned fol cost inc tilte est.

Nils G. Larson
Wilma Brennan Larson

kow july 19 41 by Nils G. Larson and Wilma Brennan Larson bf Charles Stone np for sw res at s(ns apr 26 43) fld pstico

---

1986
542
3182285

D aug 4 41
july 21 41 $1.00 $3.30 irs
The Federal Land Bank of okane, a corp existing under Federal Farm Loan act, approved july 17 16,
to Jay D. Laing and Xxxxx Fern E. Laing hu and wf
fp g b s cy and war to sp their heirs and as fd re sit kow

Beg at a pt on the W lnof Gov lot 4, sec 19, tp 25N, R5, ewm woh is N 601 ft from the Sw cor thof; th N al sd Wln 332.75 ft to theNW cor fo the sd gov lot 4; th N 89°29'25" E al the N ln of sd gov lot 4, 1174. ft, m/l to the NE cor thof; th S 0°22'40" W al the E ln of sd Gov lot 4, 885 ft, m/l, to a pt 440 ft Nly from the SE cor thof; th S 89°33'49" W al a lnpllt the S ln of sd gov lot 4, 508.3 ft, m/l, th N al a ln 660 ft dist from and pllt the W ln of sd gov lot 4, 552 ft; th S 89°28'37" W 660 ft to the pob;

togwithall the sm as 2970760--1936--

The Federal Land Bank of Spokane
corp sl by S.C.Fish vp
attest Jos.J. Davey sec

Spokane Co.Wn july 24 41 by S.C.Fish vp of sd corp and on oath stated thm he was auth to ex sd instr and that the sl afx is the corp sl of sd corp; bf Carol E.Scharp np for sw res at Spokane (ns mar 15 xx 43) fld L & R ml Wn Mutual

---

1986
544
3182284

D aug 4 41
aug 4 41 $10 $.55 irs $.50 st
Harry M.Webb and Bertha L. Webb hwf
to B. G. Owen and Jessie M. Xxxxxxx Owen hwf
fp cyand war to sp fd re sit kow

lots 9 and 10, and E 15 ft of lot 11 thn blk 1 a replat of blks 13 and 14 East South Park Addn, kown

sub to ___

Harry M. Webb
Bertha L.Webb

kow aug 4 41 by Harry M. Webb and Bertha L.Webb hef bf Geo. W.Farlin np for sw res at s (ns nov17 44) fld L & R ml xx 310 Republic bldg.

D

1986
546
3182285

M aug 4 41
dec 14 40 $10 $2.75 irs $2.50 st
Marion Mockly Anderson, an unmrd person, of swn(frlmy Marion Xxxx Mockly)
to Margaret Wise and Katharine Bernard, both spins
fp cy and war to sp fd re sit kow

rgl

cont

Cem D Apr 22-30 9-30 2599911
Apr 17-30 $180. (NOTED ONLY)
Evergreen Cemetery Co. of Seattle, a Wn corp
to Clara M.Morris
Cying to sp The W 9 ft of Lot 531 in Replat of Sec 3 of Evergreen Park * * Vol 31 of plats pg 6 cont 90 sq ft of ld mrl
(Ml sp 4456 Stoneway)

Assmt Cont & D Apr 22-30 9-43 2599912
Apr 14-30 val recd
George E.Adamek, a bach
to Joseph Baumgartner
Fp hby a t and so to sp tht certain cont entered into on Oct 15-27 betw fp hin as seller and Paul Mohr and Ione Mohr, hw as pur for the sale and pur of the fdre sit in kcw

The S½ of Lot 20 and all of Lot 21 In Blk 1 of Ballard Park Add to the C of S, ko as map thof rec in vol 4 of plats pg 80 rec of sd Co togthr with all furniture as itemized in the cont and sd fp cy and qc sd des prem to sd sp who hby assumes and agrees to fulfill the condi of sd re cont and sd fp hby cov tht there is unpd on the prin of sd cont the sum of $1059.02
George E.Adamek
kcw Apr 14-30 by George E.Adamek, a bach bef A.J.Carlson np for sw res at s ns Jun 10-33 (Ml sp Arlington Hotel, City)

D Apr 22-30 9-44 2599913
Mar 27-30 $10.
S.L.Comrada (also kn of rec as Sam Comrada) and Ruth Comrada, hw
to Fairy B.Van Raalte, wf of Phineas Van Raalte
Fp cy and wrr to sp the fdre sit in kcw

S 10 ac of the N 20 ac of the E½ of NE¼ of Sec 10 Tp 23 N R 5 ewm except Co roads
(This deed is gvn subj to a mtg in the sum of $400. now of rec on sd prop)
S.L.Comrada
Ruth Comrada
kcw Mar 27-30 by S.L.Comrada and Ruth Comrada, bef E.F.Reser np for sw res at s ns Oct 15-30 (Ml WTICo)

D Apr 28-30 9-51 2599914
Apr 1-30 #10345
W.W.Shields, as Treas --- sm as 1425275 ---
to J.R.Johnson
--- Mar 8-30 --- $2500. --- sp ---

Lots 1-2-3-4 and 5 Blk 1 East South Park, Replat of Blks 13 and 14 kcw
($1300.37 of the pp was applied to the liquidation of outstanding assmts)
--- sp --- fp --- sp his ---
W.W.Shields ---
Treas Sl Thec Christy ---
(Ml sp 8428-44th Ave So City)

PA Apr 28-30 9-53 2599915
Apr 7-30
Walter H Ellis of 3708 Clarington Ave, Los Angeles, Cal
to Samuel Hible, of Duvall, Wash
I, fp do make, constitute and appoint sp my true and lawful spcl atty for me and in my nm, pl and stead to handle all matters pertaining to my int in the est of William H.Ellis and Julia B.Ellis, giving and granting unto my sd atty full power and auth to do and perform all and every act whatsoever requisite and nec to be done in and about the prem as effectually as I could myself do if personally present, with power of substn and revocation; and I do hby ratify and confirm all acts tht may lawfully be done in pursuance of this power.
Walter H Ellis
(S)

D Fi Oct 4-19 2-6 1351568
Sep 22-19 $10. $0.50 irsx
Catherine Herberger (a div woman) dealing with her sep prop
to J.R.Johnson, of s-w
Fp cy and wrr to sp the fol des r e sit in kcw

Lot 6 Blk 1 Replat of Blks 13 and 14 East South Park, acc to plat thof rec in vol 16 of plats pg 69 rec of sd co

Catherine Herberger S1

Alameda Co Cal Sep 22-19 by Catherine Herberger, a div woman bef H.S.O'Neill np for the Co of Alameda, State of Cal res at Oakland, Alameda Co Cal ns c6m ex Sep 2-20
(Mail to J.R.Johnson, 8502 Dallas Ave. S-W)

---

cs 539 to 581

Lease Fi Oct 4-19 2-11 1351582
Sep 26-19 $570.
G.Kinncar Company, a wn corp
to T.F.Nakanishi
Fp dby lease to sp

That certain store room nod 210 Occidental Ave

for the purp of conducting thin a restaurant bus for term of 3 yrs beginning comm on Oct 1-19 and ending at the expiration of Sep 30-22 at the mo rental of $190. pbl in advance on the 1st day of each and every mo during sd term; sd $570. to be credited to the last 3 mos rent for sd prem
LONG LEASE IF USED TO BE WRITTEN FROM RECORD

Lease Fi Oct 4-19 2-11 1351583
Oct 1-19
Squire Investment Company, a corp of sw of s-w
to A.Yukikawa, of the sm pl
Fp lease and demise to sp

the 2 upper floors, the furnace room in the basement and the room adjoining the furnace room and used as an entry thto all in the bldg loc at the se cor of 6th Ave S and Weller St in the C of S kcw
for term of 3 yrs comm with Oct 1-19 and ending with Sep 30-22 at mo rental of $448. for each mo of sd term pbl in advance on the 1st day of each mo
$448. sum given sp on this lease; $448. is first mo rent of sd term and $448. to remain as security for sd lease
LONG LEASE, IF USED TO BE WRITTEN FROM REC

---

cm 584-585

D Fi Oct 4-19 2-15 1351586
Sep 27-19 $1900. $2. irex
Dickson R.Steele, a bach of s-w
to Charles E.Johnson and Marian Johnson, hw of s-w
Fp & b s c c to sp their h and a the fdld in kcw

S 10 ft of Lot 44 and all of Lots 45 and 46 in Blk 9 of Gilman & Park First Add to the C of S

Cov GW

Dickson R.Steele S1

kcw Sep 27-19 by Dickson R.Steele, bef Carl G.Nelson np for the sw res at s ns Jan 29-21
(Mail to sp 6210 5th Ave. N.W.)

(S)

CONDITIONAL
Bill of Sale Fi Apr 22-18 1;4 1208240
Apr 15-18 #15454
Mrs. Annie M. Krouse, of KCW
to M.A.Ferguson, of S KCW
Fp has delivered to sp the persl prop hinafter des under a cont of con sale the terms of wch are as fol:
Sd prop is now and shall remain the absolute prop of fp until full payt of pp is pd wch is $325. Sp has pd on acct of above pp $250. rect acked, and the bal of $85. is evidenced by the folg des prom notes:
1 note dtd Apr 15-18 for $25. due May 15-18; $25. due June 15-18 and $25. due Jul 15-18
Upon full payt of sd prom notes prin and int the ti to sd prop shall vest in sd sp
Sd prop while out of possession of sd fp shall be at the risk of sd sp and all loss or damage of sd prop shall be borne by sp
Sp shall at all times while the sd prop is in the possession of sp have the right to use and same for all uses and purposes for wch sd prop is designed.
Possession of sd prop was taken on Apr 16-18
Sd prop des as fol:

One Summer cottage and furnithre, etc, above located at 311 Lake-Side Ave Seattle

Mrs. Annie M. Krouse
(Not acked) M. A. Ferguson
Fi by vndor

D Fi Apr 22-18 1;5 1208241
Apr 22-18 $10. 50¢ IRSx
F. J. Herberger and Mattie Herberger, hw
to J. H. Johnson
Fp cy & w to sp the fol des r e

Lot 7 Blk 1 Replat of Blks 13 and 14 East South Park, KCW
Subj to the 1917 tax and also to all assmts levied or tht may be harter levied in connection with the Duwamish Waterway and also subj to any claim or lien tht may be made or enforced for any fill or other improvement made in connection with the excavation of the Duwamish Waterway, sit in ko sw

F.J.Herberger
Mattie Herberger

KCW Apr 22-18 by F.J.Herberger and Mattie Herberger, hw bef J. F. Corrigan NP for the SW res at S NS Feb 24-19
(Mail to 8502 Dallas Ave)

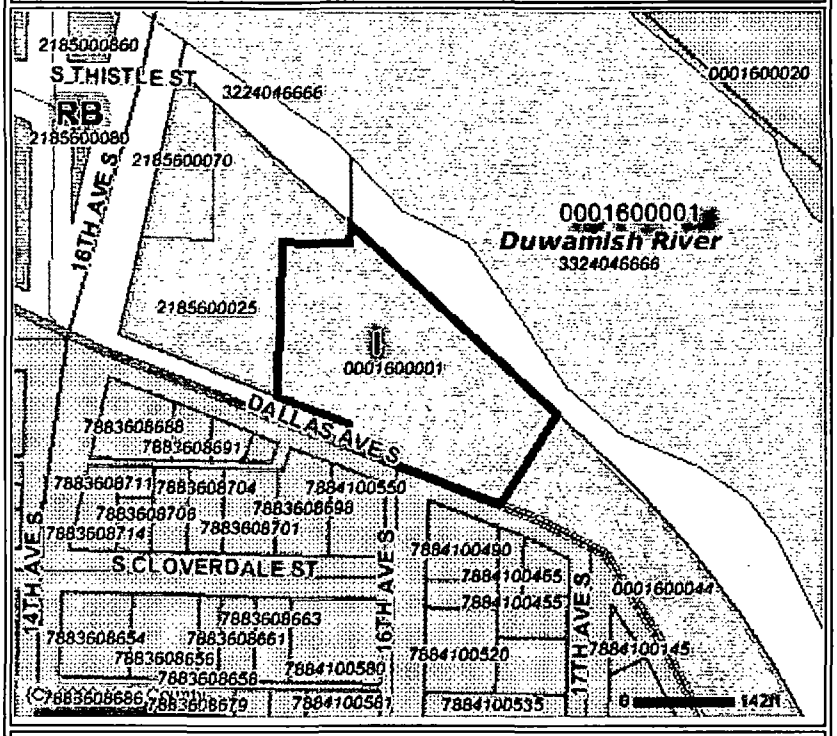
D Fi Apr 22-18 1;6 1208242
Apr 16-18 $1.
Bridget Joyce, a widow of S-W
to Lenore Joyce, a spinster, of S-W
Fp g b s c & c to sp her h&a the fol des r e sit in KC SW

S 220 ft. of N 1045 ft. of W 396 ft. of SE¼ of NE¼ of Sec 36,-Blk 26-Rge 5 King Co. State of Washington, Tax Lot 22

Cov SW Bridget Joyce Sl
2 wit
KCW Apr 22-18 by Bridget Joyce, a widow bef Alfretta M. Hoffstater NP for the SW res at S NS Oct 18-19
(Mail to gtee, c/a Amer. Sav, Bk & Tr. Co)

King County | Home | News | Services | Comments | Search

Parcel Map and Data



Parcel Number	0001600001
Address	8544 DALLAS AVE S
Zipcode	
Taxpayer	SOUTH PARK MARINA LTD PARTN

The information included on this map has been compiled by King County staff from a variety of sources and is subject to change without notice. King County makes no representations or warranties, express or implied, as to accuracy, completeness, timeliness, or rights to the use of such information. King County shall not be liable for any general, special, indirect, incidental, or consequential damages including, but not limited to, lost revenues or lost profits resulting from the use or misuse of the information contained on this map. Any sale of this map or information on this map is prohibited except by written permission of King County."

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The details.

USEPA SF
1256004

BAH PARCEL 101 (#0001600001)

LEGAL DESCRIPTION:

PARCEL A:

LOTS 1 AND 2, BLOCK 1, REPLAT OF BLOCKS 13 AND 14, EAST SOUTH PARK, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 16 OF PLATS, PAGE(S) 69, RECORDS OF KING COUNTY, WASHINGTON.

PARCEL B1:

THAT PORTION OF THE JOHN BUCKLEY DONATION LAND CLAIM IN TOWNSHIP 24, RANGE 4, W.M., IN KING COUNTY WASHINGTON, DESCRIBED AS FOLLOWS:

BEGINNING AT THE INTERSECTION OF THE WEST LINE OF THE SOUTHWEST QUARTER OF THE NORTHWEST QUARTER IN SECTION 33, TOWNSHIP 24 NORTH, RANGE 4 EAST, W.M., WITH THE SOUTHWESTERLY LINE OF DUWAMISH WATERWAY RIGHT OF WAY;

THENCE SOUTH 49°00'00" EAST, 238.22 FEET;
THENCE SOUTH 38°01'57" WEST, 201.83 FEET;
THENCE NORTH TO A POINT 825 FEET SOUTH OF THE NORTH LINE OF SAID DONATION CLAIM;
THENCE WEST 50 FEET TO THE EAST LINE OF LOT 1, BLOCK 1 OF REPLAT OF BLOCKS 13 AND 14, EAST SOUTH PARK ADDITION, AS PER PLAT RECORDED IN VOLUME 16 OF PLATS, PAGE 69, RECORDS OF KING COUNTY;
THENCE NORTH ALONG SAID EAST LINE TO POINT OF BEGINNING.

PARCEL B2:

THAT PORTION OF THE JOHN BUCKLEY DONATION LAND CLAIM IN TOWNSHIP 24, RANGE 4, W.M., IN KING COUNTY WASHINGTON, DESCRIBED AS FOLLOWS:

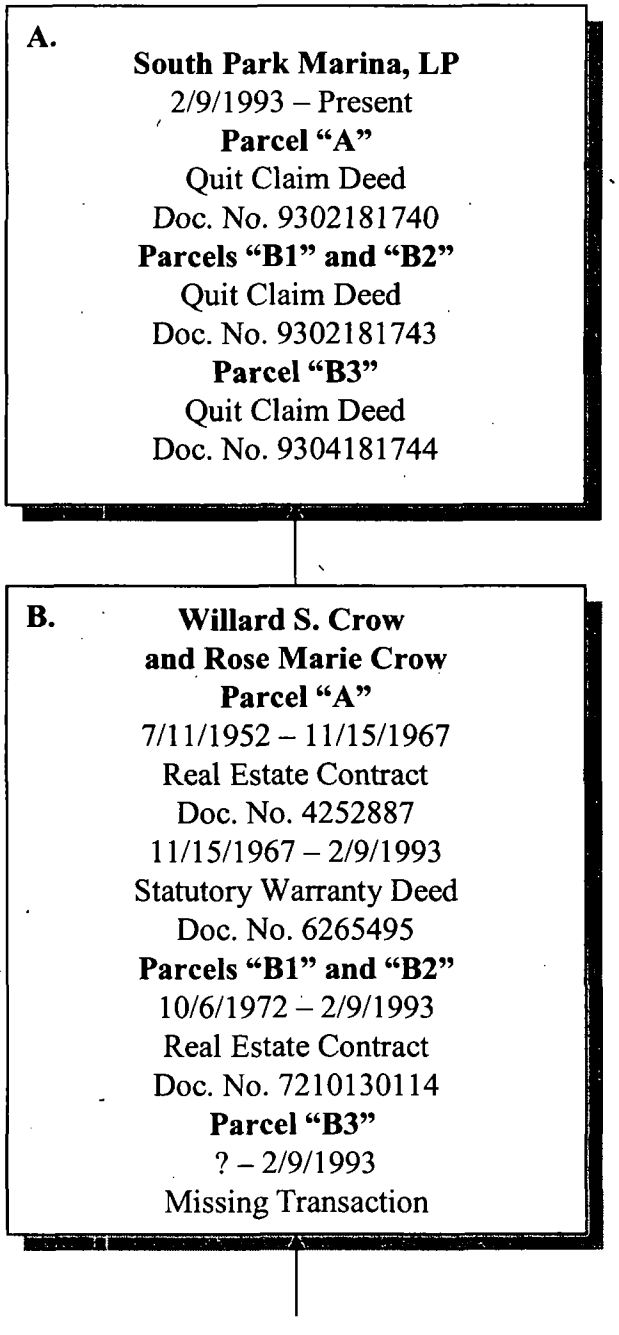
BEGINNING AT THE SOUTHEAST CORNER OF LOT 1, BLOCK 1, REPLAT OF BLOCKS 13 AND 14, EAST SOUTH PARK ADDITION AS PER PLAT RECORDED IN VOLUME 16 OF PLATS, PAGE 69, RECORDS OF KING COUNTY.
THENCE NORTH ALONG THE EAST LINE OF SAID LOT 1, A DISTANCE OF 57.70 FEET TO INTERSECT A LINE 825 SOUTH OF THE NORTH LINE OF SAID DONATION LAND CLAIM.
THENCE EAST ALONG SAID LINE 50 FEET;
THENCE SOUTH PARALLEL TO SAID EAST LINE OF LOT 1 TO THE NORTH LINE OF DALLAS AVENUE AS PLATTED IN SOUTH PARK HEIGHTS, AS PER PLAT RECORDED IN VOLUME 8 OF PLATS, PAGE 52, RECORDS OF KING COUNTY;
THENCE NORTHWESTERLY ALONG SAID NORTH LINE TO INTERSECT THE EAST LINE OF SAID LOT 1, PRODUCED SOUTH;
THENCE NORTH ALONG SAID PRODUCED LINE TO POINT OF BEGINNING.

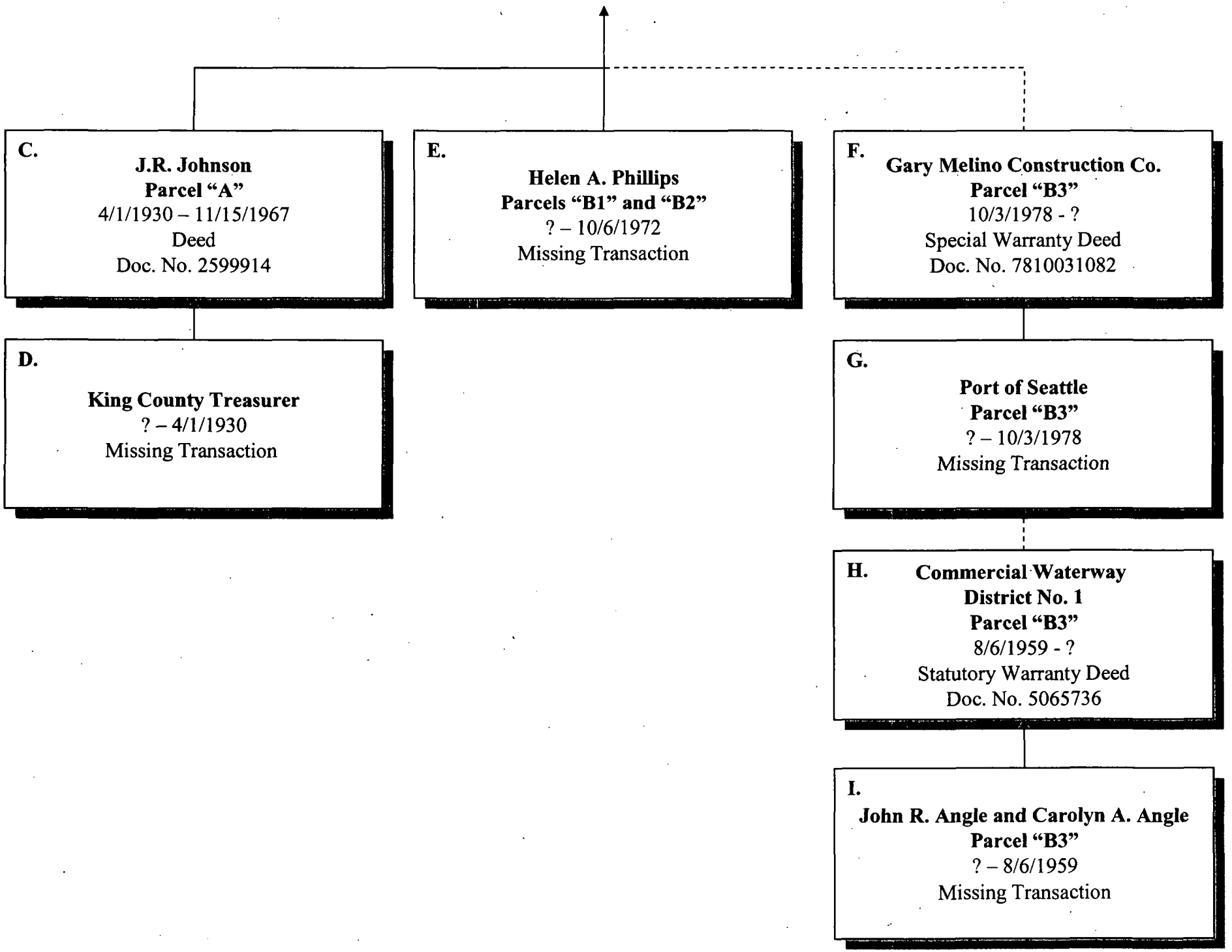
PARCEL B3:

THAT PORTION OF THE SOUTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 33, TOWNSHIP 24 NORTH, RANGE 4 EAST, W.M., DESCRIBED AS FOLLOWS;

COMMENCING AT THE INTERSECTION OF THE WEST LINE OF SAID SUBDIVISION WITH THE SOUTHWESTERLY RIGHT-OF-WAY LINE OF COMMERCIAL WATERWAY DISTRICT NO. 1;
THENCE SOUTH 49°0'0" EAST ALONG SAID RIGHT-OF-WAY, 238.22 FEET TO THE TRUE POINT OF BEGINNING;
THENCE CONTINUING SOUTH 49°0'0" EAST ALONG SAID RIGHT-OF-WAY, 159.44 FEET;
THENCE SOUTH 30°49'10" WEST, 151.75 FEET TO THE EXISTING NORTHERLY BOUNDARY OF DALLAS AVENUE;
THENCE NORTH 69°59'59" WEST, 177.33 FEET;
THENCE NORTH 0°59'15" WEST 15.29 FEET:
THENCE NORTH 38°07'57" EAST 201.83 FEET TO THE TRUE POINT OF BEGINNING.

BAH Parcel 101 (No. 0001600001) Title Tree




C.
J.R. Johnson
Parcel "A"
4/1/1930 – 11/15/1967
Deed
Doc. No. 2599914
E.
Helen A. Phillips
Parcels "B1" and "B2"
? – 10/6/1972
Missing Transaction
F.
Gary Melino Construction Co.
Parcel "B3"
10/3/1978 - ?
Special Warranty Deed
Doc. No. 7810031082
D.
King County Treasurer
? – 4/1/1930
Missing Transaction
G.
Port of Seattle
Parcel "B3"
? – 10/3/1978
Missing Transaction
H.
Commercial Waterway
District No. 1
Parcel "B3"
8/6/1959 - ?
Statutory Warranty Deed
Doc. No. 5065736
I.
John R. Angle and Carolyn A. Angle
Parcel "B3"
? – 8/6/1959
Missing Transaction

QUIT-CLAIM DEED

STATUTORY FORM

THE GRANTOR(S) WILLARD S. CROW AND ROSE MARIE CROW
of 3803 120th S.E., City of Bellevue,
County of King, Washington, for and in consideration of None - Family Partnership
convey and quit-claim to South Park Marina Limited Partnership
of 8604 Dallas Avenue South, City of Seattle,
County of King, State of Washington, all interest in the following described Real Estate:

That portion of the Southwest quarter of the Northwest quarter of Section 33, Township 24 North, Range 4 East, W.M., described as follows:

Commencing at the intersection of the West line of said subdivision with the Southwesterly right-of-way line of Commercial Waterway District Number 1,

thence South 49°0'0" East along said right-of-way 238.22 feet to the true point of beginning;

thence continuing South 49°0'0" East along said right of way 159.44 feet;

thence South 30°49'10" West 151.75 feet to the existing Northerly boundary of Dallas Avenue;

thence North 69°59'59" West 177.33 feet;

thence North 0°59'15" West 15.29 feet;

thence North 38°01'57" East 201.83 feet to the point of beginning.

situated in the County of King, State of Washington. Dated this 9th day of February, 1993.

Willard S. Crow
Rose Marie Crow
Grantor(s)

NOTARY ACKNOWLEDGMENT

[INDIVIDUAL ACKNOWLEDGMENT]

STATE OF Washington }
County of King } ss.

I, Ruth A. Schafer, Notary Public in and for the State of Washington, do hereby certify that on this 16th day of February, 1993, personally appeared before me Willard Crow & Rose Marie Crow to me known to be the individual S described in and who executed the within instrument and acknowledged that they signed the same as their free and voluntary act and deed for the uses and purposes herein mentioned.

Signed and sworn to before me this 16th day of February, 1993.

RUTH A. SCHAFER
NOTARY PUBLIC
STATE OF WASHINGTON
COMMISSION EXPIRES 1-6-95

Ruth A. Schafer
Notary Public in and for the State of Washington
My appointment expires: 1-6-95

Quit-Claim Deed (Statutory Form)
Washington Legal Blank, Inc., Issaquah, WA Form No. 280 7/91
MATERIAL MAY NOT BE REPRODUCED IN WHOLE OR IN PART IN ANY FORM WITHOUT PERMISSION

9302181744
E1294064 02/18/1993 .00 .00
9302181744 02/18/93 PM KING COUNTY RECORDS 001 .00

7810031082

(13)

SPECIAL WARRANTY DEED AND ASSIGNMENT OF LESSOR'S INTEREST

THE GRANTOR, THE PORT OF SEATTLE, a Washington municipal corporation, for and in consideration of EIGHTY-SIX THOUSAND ONE HUNDRED AND NO/100 DOLLARS ($86,100.00), in hand paid, grants, bargains, sells, conveys, and confirms to the GRANTEE, GARY MERLINO CONSTRUCTION CO., a partnership, the following described real estate, situated in the County of King, State of Washington, hereinafter called the "Premises":

That portion of the Southwest Quarter of the Northwest Quarter of Section 33, Township 24 North, Range 4 East, W.M., described as follows:

Commencing at the intersection of the west line of said subdivision with the southwesterly right-of-way line of Commercial Waterway District No. 1; thence south 49°0'0" east along said right-of-way 238.22 feet to the true point of beginning; thence continuing south 49°0'0" east along said right-of-way 159.44 feet; thence south 30°49'10" west 151.75 feet to the existing northerly boundary of Dallas Avenue; thence north 79°59'59" west 147.33 feet; thence north 0°59'15" west 15.29 feet, thence north 38°01'57" east 201.83 feet to the true point of beginning.

SUBJECT TO THE FOLLOWING:

1. Lease dated March 10, 1970 with First and Second Amendments both dated April 8, 1975 by Grantor to Willard B. Crow d/b/a South Park Boat Haven for term expiring March 31, 1980. Grantor hereby assigns Lessor's interest in this Lease as amended to Grantee effective as of the date of this instrument with proration of rentals as of that date.

2. Obligation of Grantee, pursuant to RCW 53.25.160 within one year from the date of this instrument to have the Premises devoted to use as a marina or to commence work on the improvements thereon to devote it to marina use. In the event Grantee fails to do either alternative, Grantor may cancel the sale and return the money paid or other consideration furnished on the purchase price, and title to the Premises shall revert to Grantor. Grantee shall not transfer title to the Premises to a third party within one year from the date of this instrument.

3. Conditions of RCW 53.25.170 subject to any future amendment or repeal of that statute. This Deed is delivered subject to a covenant required by the statute by Grantee running with the land that the Premises shall be used for marina purposes only, and that any violation of such covenant shall result in a right, but not obligation, on the part of Grantor to declare forfeit and to retake Grantee's title to the Premises.

4. Grantor hereby approves as satisfying the requirements of RCW 53.25.120 the plans and specifications furnished it by Grantee under the designation "Merlino Construction Co. Proposed Marina Development", File No. 7105-01 dated

1% EXCISE TAX NOT REQUIRED
King Co. Records Div.
By _____, Deputy

July 14, 1978, Grantor's foregoing approval of Grantee's plans and specifications, and Grantee's obligation to Grantor in paragraph 2 of this instrument with regard to use of the Premises as a marina, shall not be construed as a warranty or representation by Grantor that the plans and specifications and intended use comply with any and all applicable short platting (RCW Chapter 58.17, Seattle Ordinances 105636 and 106014), archeological protection, zoning, building permit, environmental, or similar restrictions administered by federal, state, county, city, and other governmental agencies excluding Grantor. Grantor executes and delivers this instrument on the express condition that compliance with any and all such applicable restrictions shall be the responsibility of Grantee and not of Grantor;

5. Liability on the part of Grantee for real estate taxes on the Premises, commencing with the balance of the year 1978 pursuant to RCW 84.40.360 et seq., the lien for which taxes will attach from the date of this instrument.

7810031082

The Grantor for itself and for its successors in interest does by these presents expressly limit the covenants of the deed to those herein expressed, and excludes all covenants arising or to arise by statutory or other implication, and does hereby covenant that against all persons whomsoever lawfully claiming or to claim by, through or under said Grantor and not otherwise, it will forever warrant and defend the said described real estate.

DATED: September 27, 1978.

PORT OF SEATTLE

By _____
President

ATTEST:

_____
Secretary

STATE OF WASHINGTON)
) ss.
COUNTY OF KING)

On this 12th day of September, 1978, before me, the undersigned notary public in and for the State of Washington, duly commissioned and sworn, personally appeared PAUL S. FRIEDLANDER and _____, to me known to be the President and Secretary, respectively, of the Port Commission of the PORT OF SEATTLE, a municipal corporation, the corporation that executed the foregoing instrument, and acknowledged said instrument to be the free and voluntary act and deed of said corporation, for the uses and purposes therein mentioned, and on oath stated that they were duly authorized to execute the same and that the seal affixed is the corporate seal of said corporation.

WITNESS my hand and official seal hereto the day and year in this certificate first above written.

_____
Notary Public in and for the State of Washington, residing at Seattle

506[illegible]36

Statutory Warranty Deed

PUGET SOUND TITLE INSURANCE COMPANY

Taylor & Taylor
1377 Seattle Hotel Bldg.
Seattle 4, Wash.

FILED for Record at Request of

RECORDED VOL. PAGE REQUEST OF

1959 AUG 7 PM 3 45

ASH. COUNTY DEPUTY

Mail to

Send Tax Statement to

Statutory Warranty Deed

THE GRANTOR S JOHN R. ANGLE and CAROLYN A. ANGLE, his wife,

for and in consideration of TWENTY-TWO THOUSAND DOLLARS ($22,000.00)

in hand paid, conveys and warrants to COMMERCIAL WATERWAY DISTRICT NO. 1 OF KING COUNTY, WASHINGTON, a municipal corporation,
the following described real estate, situated in the County of King, State of Washington:

That portion of the Southwest ¼ of the Northwest ¼ of Section 33, Township 24 North, Range 4 East, W.M., in King County, State of Washington, described as follows:

Commencing at the intersection of the west line of said subdivision with the southwesterly right of way line of Commercial Water District No. 1; thence South 49°00'00" East along said right of way 238.22 feet to the point of beginning; thence continuing South 49°00'00" East along said right of way line 159.44 feet; thence South 30°49'10" West 151.75 feet to the existing northerly boundary of Dallas Street; thence North 69°59'59" West along said northerly line 177.33 feet; thence North 0°59'15" West 15.29 feet; thence North 38°01'57" East 201.83 feet to the point of beginning. Containing ± 31,158 square feet or ± 0.7153 acre.

13 AUG 7 1959

AUG 7 1959

24.20
22.—

Dated this 6th day of August, 19 59.

John R. Angle (SEAL)
Carolyn A. Angle (SEAL)

STATE OF WASHINGTON,
County of KING } ss.

On this day personally appeared before me JOHN R. ANGLE and CAROLYN A. ANGLE, his wife,

to me known to be the individual s described in and who executed the within and foregoing instrument, and acknowledged that they signed the same as their free and voluntary act and deed, for the uses and purposes therein mentioned.

GIVEN under my hand and official seal this 6th day of August, 19 59.

Notary Public in and for the State of Washington, residing at Seattle.

AUG 7 - 1959

QUIT-CLAIM DEED

STATUTORY FORM

THE GRANTOR(S) WILLARD S. CROW AND ROSE MARIE CROW
of 3803 120th S.E., City of Bellevue,
County of King, Washington, for and in consideration of None - Family Partnership
convey and quit-claim to SOUTH PARK MARINA LIMITED PARTNERSHIP
of 8604 Dallas Avenue South, City of Seattle,
County of King, State of Washington, all interest in the following described Real Estate:

See Attachment for Legal Description

9302181743

E1294063 02/18/1993 .00 .00

PARCEL "A":

That portion of the John Buckley Donation Land Claim in Township 24, Range 4 East W.M., described as follows:

Beginning at the intersection of the West line of the Southwest ¼ of the Northwest ¼ in Section 33, Township 24 North, Range 4 East W.M. with the Southwesterly line of Duwamish Waterway Right of Way;
thence South 49°00'00" East 238.22 feet;
thence South 38°01'57" West 201.83 feet;
thence North to a point 825 feet South of the North line of said Donation Claim;
thence West 50 feet to the East Line of Lot 1 in Block 1 of Replat of Blocks 13 and 14 East South Park Addition, as per plat recorded in Volume 16 of Plats, page 69; records of King County;
thence North along said East line to point of beginning;

PARCEL "B":

That portion of the John Buckley Donation Land Claim in Township 24, Range 4 East W.M., described as follows:

Beginning at the Southweast corner of Lot 1 in Block 1, Replat of Blocks 13 and 14 East south Park Addition, as per plat recorded in Volume 16 of Plats, page 69, records of King county,
thence North along the East line of said Lot 1, a distance of 57.70 feet to intersect a line 825 feet South of the North line of said Donation Land Claim;
thence East along said line 50 feet;
thence South parallel to said East line of Lot 1 to the North line of Dallas Avenue as platted in South Park Heights, as per plat record in Volume 8 of Plats, page 52, records of King County,
thence Northwesterly along said North line to intersect East line of said Lot 1, produced South;
thence North along said produced line to point of beginning

Situate in the County of King, State of Washington

9302181743 02:28:00 PM KING COUNTY RECORDS 002 R10

REAL ESTATE CONTRACT

7210130114

THIS CONTRACT, made and entered into this 6th day of October, 1972,

FILED FOR RECORD AT REQUEST OF TRANSAMERICA TITLE INSURANCE COMPANY
Recorded A.M. SEQUOIA, WA 98160

between HELEN A. PHILLIPS, as her separate property,

hereinafter called the "seller," and

WILLARD S. CROW, and ROSE MARIE CROW, his wife,

hereinafter called the "purchaser,"

WITNESSETH: That the seller agrees to sell to the purchaser and the purchaser agrees to purchase from the seller the following described real estate, with the appurtenances, in King County, State of Washington:

As attached hereto and by this reference thereto made a part of this Real Estate Contract;

40 05 37

PARCEL "A":

That portion of the John Buckley Donation Land Claim in Township 24, Range 4 East W.M., described as follows:

Beginning at the intersection of the West line of the Southwest ¼ of the Northwest ¼ in Section 33, Township 24 North, Range 4 East W.M. with the Southwesterly line of Duwamish Waterway Right-of-way;
thence South 49°00'00" East 238.22 feet;
thence South 38°01'57" West 201.83 feet;
thence North to a point 825 feet South of the North line of said Donation Claim;
thence West 50 feet to the East line of Lot 1 in Block 1 of Replat of Blocks 13 and 14 East South Park Addition, as per plat recorded in Volume 16 of Plats, page 69; records of King County;
thence North along said East line to point of beginning;

11

PARCEL "B":

That portion of the John Buckley Donation Land Claim in Township 24, Range 4 East W.M., described as follows:

Beginning at the Southeast corner of Lot 1 in Block 1, Replat of Blocks 13 and 14 East South Park Addition, as per plat recorded in Volume 16 of Plats, page 69, records of King County;
thence North along the East line of said Lot 1, a distance of 57.76 feet to intersect a line 825 feet South of the North line of said Donation Land Claim;
thence East along said line 50 feet;
thence South, parallel to said East line of Lot 1 to the North line of Dallas Avenue as platted in South Park Heights, as per plat record in Volume 8 of Plats, page 52, records of King County,
thence Northwesterly along said North line to intersect East line of said Lot 1, produced South;
thence North along said produced line to point of beginning;

12

Situate in the County of King, State of Washington

Recorder's Note: Portions of this document poor quality for filming.

The terms and conditions of this contract are as follows: The purchase price is THIRTY-FIVE THOUSAND FIVE HUNDRED AND NO/100 ($35,500.00) Dollars, of which FIVE THOUSAND AND NO/100 ($ 5,000.00) Dollars have been paid, the receipt whereof is hereby acknowledged, and the balance of said purchase price shall be paid as follows: THREE HUNDRED AND NO/100 ($ 300.00) Dollars, or more at purchaser's option, on or before the 12th day of November, 1972, and THREE HUNDRED AND NO/100 ($ 300.00) Dollars, or more at purchaser's option, on or before the 12th day of each succeeding calendar month until the balance of said purchase price shall have been fully paid. The purchaser further agrees to pay interest on the diminishing balance of said purchase price at the rate of 7-1/2 per cent per annum from the 12th day of October, 1972, which interest shall be deducted from each installment payment and the balance of each payment applied in reduction of principal. All payments to be made hereunder shall be made at _____ or at such other place as the seller may direct in writing.

72101301 14

Notwithstanding the aforegoing payment schedule, it is specifically understood and agreed that during the first ten years of the life of this Real Estate Contract no payments in excess of the sum of $500.00 per month may be made by purchaser herein.

As referred to in this contract, "date of closing" shall be October 12, 1972

(1) The purchaser assumes and agrees to pay before delinquency all taxes and assessments that may as between grantor and grantee hereafter become a lien on said real estate; and if by the terms of this contract the purchaser has assumed payment of any mortgage, contract or other encumbrance, or has assumed payment of or agreed to purchase subject to, any taxes or assessments now a lien on said real estate, the purchaser agrees to pay the same before delinquency.

(2) The purchaser agrees, until the purchase price is fully paid, to keep the buildings now and hereafter placed on said real estate insured to the actual cash value thereof against loss or damage by both fire and windstorm in a company acceptable to the seller and for the seller's benefit, as his interest may appear, and to pay all premiums therefor and to deliver all policies and renewals thereof to the seller.

(3) The purchaser agrees that full inspection of said real estate has been made and that neither the seller nor his assigns shall be held to any covenant respecting the condition of any improvements thereon nor shall the purchaser or seller or the assigns of either be held to any covenant or agreement for alterations, improvements or repairs unless the covenant or agreement relied on is contained herein or is in writing and attached to and made a part of this contract.

(4) The purchaser assumes all hazards of damage to or destruction of any improvements now on said real estate or hereafter placed thereon, and of the taking of said real estate or any part thereof for public use; and agrees that no such damage, destruction or taking shall constitute a failure of consideration. In case any part of said real estate is taken for public use, the portion of the condemnation award remaining after payment of reasonable expenses of procuring the same shall be paid to the seller and applied as payment on the purchase price herein unless the seller elects to allow the purchaser to apply all or a portion of such condemnation award to the rebuilding or restoration of any improvements damaged by such taking. In case of damage or destruction from a peril insured against, the proceeds of such insurance remaining after payment of the reasonable expense of procuring the same shall be devoted to the restoration or rebuilding of such improvements within a reasonable time, unless purchaser elects that said proceeds shall be paid to the seller for application on the purchase price herein.

(5) The seller has delivered, or agrees to deliver within 15 days of the date of closing, a purchaser's policy of title insurance in standard form, or a commitment therefor, issued by Transamerica Title Insurance Company, insuring the purchaser to the full amount of said purchase price against loss or damage by reason of defect in seller's title to said real estate as of the date of closing, subject only to exceptions other than the following:

a. Printed general exceptions appearing in said policy form;

b. Liens or encumbrances which by the terms of this contract the purchaser is to assume, or as to which the conveyance hereunder is to be made subject; and

c. Any existing contract or contracts under which seller is purchasing said real estate, and any mortgage or other obligation which seller by this contract agrees to pay, none of which for the purpose of this paragraph (5) shall be deemed defects in seller's title;

E 155567 OCT 13 1972 $ 1.00 Deputy M. V. WILLIAMS Clark County Texas

Form 889
A-1964 Ind-w

7210130114

(6) If seller's title to said real estate is subject to an existing contract or contracts under which seller is purchasing said real estate, or any mortgage or other obligation, which seller is to pay, seller agrees to make such payments in accordance with the terms thereof, and upon default, the purchaser shall have the right to make any payments necessary to remove the default, and any payments so made shall be applied to the payments next falling due the seller under this contract.

(7) The seller agrees, upon receiving full payment of the purchase price and interest in the manner above specified, to execute and deliver to purchaser a statutory warranty (fulfillment) deed to said real estate, excepting any part thereof hereafter taken for public use, free of encumbrances except any that may attach after date of closing through any person other than the seller, and subject to the following: Easement for pipe line recorded under Auditor's File No. 3596138; Any prohibition or limitation on the use, occupancy, or improvement of the land resulting from the rights of the public or riparian owners to use any waters which may cover the land.

(8) Unless a different date is provided for herein, the purchaser shall be entitled to possession of said real estate on date of closing and to retain possession so long as purchaser is not in default hereunder. The purchaser covenants to keep the buildings and other improvements on said real estate in good repair and not to permit waste and not to use, or permit the use of, the real estate for any illegal purpose. The purchaser covenants to pay all service, installation or construction charges for water, sewer, electricity, garbage or other utility services furnished to said real estate after the date purchaser is entitled to possession.

(9) In case the purchaser fails to make any payment herein provided or to maintain insurance, as herein required, the seller may make such payment or effect such insurance, and any amounts so paid by the seller, together with interest at the rate of 10% per annum thereon from date of payment until repaid, shall be repayable by purchaser on seller's demand, all without prejudice to any other right the seller might have by reason of such default.

(10) Time is of the essence of this contract, and it is agreed that in case the purchaser shall fail to comply with or perform any condition or agreement hereof or to make any payment required hereunder promptly at the time and in the manner herein required, the seller may elect to declare all the purchaser's rights hereunder terminated, and upon his doing so, all payments made by the purchaser hereunder and all improvements placed upon the real estate shall be forfeited to the seller as liquidated damages, and the seller shall have right to re-enter and take possession of the real estate; and no waiver by the seller of any default on the part of the purchaser shall be construed as a waiver of any subsequent default.

Service upon purchaser of all demands, notices or other papers with respect to forfeiture and termination of purchaser's rights may be made by United States Mail, postage pre-paid, return receipt requested, directed to the purchaser at his address last known to the seller.

(11) Upon seller's election to bring suit to enforce any covenant of this contract, including suit to collect any payment required hereunder, the purchaser agrees to pay a reasonable sum as attorney's fees and all costs and expenses in connection with such suit, which sums shall be included in any judgment or decree entered in such suit.

If the seller shall bring suit to procure an adjudication of the termination of the purchaser's rights hereunder, and judgment is so entered, the purchaser agrees to pay a reasonable sum as attorney's fees and all costs and expenses in connection with such suit, and also the reasonable cost of searching records to determine the condition of title at the date such suit is commenced, which sums shall be included in any judgment or decree entered in such suit.

IN WITNESS WHEREOF, the parties hereto have executed this instrument as of the date first written above.

Helen A. Phillips (SEAL)
HELEN A. PHILLIPS

(SEAL)

Willard S. Crow (SEAL)
WILLARD S. CROW

Rose Marie Crow (SEAL)
ROSE MARIE CROW

STATE OF WASHINGTON, } ss.
County of KING, }

On this day personally appeared before me HELEN A. PHILLIPS,

to me known to be the individual described in and who executed the within and foregoing instrument, and acknowledged that she signed the same as her free and voluntary act and deed, for the uses and purposes therein mentioned.

GIVEN under my hand and official seal this day of October, 1972.

Notary Public in and for the State of Washington,
residing at

Transamerica Title Insurance Co

A Service of Transamerica Corporation

FILED for Record at Request of
TRANSAMERICA TITLE INS. CO.
SEATTLE, WASH.

THIS SPACE RESERVED FOR RECORDER'S USE

ELECTION - KING CO. WN.
DEPUTY

1972 OCT 13 PM 8 00

Filed for Record at Request of

Name
FILED FOR RECORD AT REQUEST OF
TRANSAMERICA TITLE
COMPANY

7210130114

QUIT-CLAIM DEED

STATUTORY FORM

THE GRANTOR(s) WILLARD S. CROW AND ROSE MARIE CROW
of 3803 120th S.E., City of Bellevue,
County of King, Washington, for and in consideration of None - Family Partnership
convey and quit-claim to South Park Marina Limited Partnership
of 8604 Dallas Avenue South, City of Seattle,
County of King, State of Washington, all interest in the following described Real Estate:

9302181740

Lots 1 to 7, inclusive, and Lots 9 to 12 inclusive, Block 1, Replat of Blocks 13 and 14 East South Park, according to plat thereof recorded in Volume 16 of plats, page 69, records of said county; EXCEPT that portion of said lot 7 conveyed to King County for right of way 14th Avenue South Bridge relocation by deed recorded under auditor's file No. 2562653, records of said county; and EXCEPT that portion of said lots 9 to 12, inclusive, conveyed to Commercial Waterway District No. 1 by deeds recorded under Auditor's file Nos. 808122 and 809621, records of said county; ALSO any portion of lot 8, said block 1, not conveyed to King Country for 14th Avenue South Bridge RElocation by deed recorded under auditor's file No. 2562654, records of said county.

This deed shall be construed to be a Quit Claim Deed as to the portion of Lot 8 above described.

E1294060 02/18/1993 .00 .00

situated in the County of KING, State of Washington. Dated this 9th day of February, 1993.

Willard S. Crow
Rose Marie Crow
(Grantor)

NOTARY ACKNOWLEDGMENT

STATE OF Washington)
County of King) ss. (INDIVIDUAL ACKNOWLEDGMENT)

I, Ruth A Schafer, Notary Public in and for the State of Washington, do hereby certify that on this 16th day of February, 1993, personally appeared before me Willard Crow & Rose Marie Crow to me known to be the individual s described in and who executed the within instrument and acknowledged that They signed the same as Their free and voluntary act and deed for the uses and purposes herein mentioned.

Signed and sworn to before me this 16th day of February, 1993.

RUTH A. SCHAFER NOTARY PUBLIC STATE OF WASHINGTON COMMISSION EXPIRES 1-6-95

Ruth A Schafer
Notary Public in and for the State of Washington
My appointment expires: 1-6-95

Quit-Claim Deed (Statutory Form)
Washington Legal Blank, Inc., Issaquah, WA Form No. 289 7/91
MATERIAL MAY NOT BE REPRODUCED IN WHOLE OR IN PART IN ANY FORM WHATSOEVER.

9302181740 02:28:00 PM KING COUNTY RECORDS 001 RTD 7.00

Statutory Warranty Deed — RF 2.00

NOV-15-67 K 00008 6265495

RECORDED
VOL.
PAGE REQUEST OF

WASHINGTON TITLE INSURANCE COMPANY
SEATTLE, WASHINGTON

FILED for ... at Request of ... 15 AM 10 40
ROBERT A. ... KING COUNTY WASH.
... DEPUTY

Name Willard S. Crow
Address 37[illegible]20th S.E.
Bellevue, Wash. 98004

Mail to 65.00 71.50 136.50

Statutory Warranty Deed

THE GRANTOR J. R. JOHNSON and IDA MYRTLE JOHNSON

for and in consideration of $10.00 and other valuable consideration

in hand paid, conveys and warrants to WILLARD S. CROW and ROSE MARIE CROW

the following described real estate, situated in the County of King, State of Washington:

Lots 1 to 7, inclusive, and lots 9 to 12 inclusive, Block 1, Replat of Blocks 13 and 14 East South Park, according to plat thereof recorded in Volume 16 of plats, page 69, records of said county; EXCEPT that portion of said lot 7 conveyed to King County for right of way 14th Avenue South Bridge relocation by deed recorded under auditor's file No. 2562653, records of said county; and EXCEPT that portion of said lots 9 to 12, inclusive, conveyed to Conercial Waterway District No. 1 by deeds recorded under Auditor's file Nos. 809122 and 809621, records of said county; ALSO any portion of lot 8, said block 1, not conveyed to King County for 14th Avenue South Bridge Relocation by deed recorded under auditor's file No. 2562654, records of said county.

NOV 15 1967

This deed shall be construed to be a Quit Claim Deed as to the portion of Lot 8 above described.

This deed is in fulfillment of that certain Real Estate Contract between the parties hereto executed the 28th day of June, 1952.

Dated this 18th day of July, 1952

NOV 15 1967

J. R. Johnson (SEAL)
Ida Myrtle Johnson (SEAL)

STATE OF WASHINGTON }
County of King } ss.

On this day personally appeared before me J. R. JOHNSON and IDA MYRTLE JOHNSON to me known to be the individual s described in and who executed the within and foregoing instrument, and acknowledged that they signed the same as their free and voluntary act and deed, for the uses and purposes therein mentioned.

GIVEN under my hand and official seal this 18th day of July, 1952

Notary Public in and for the State of Washington residing at Seattle

SALES TAX PAID ON CONTRACT ARE NO E52409
M. J. R. WILLIAMS, KING COUNTY TREASURER
BY M. L. Robinson DEPUTY

NOV 15 1967

NOV 15 1967

NOV 15 1967

Cont Jul 11-52
Jun 28-52 (TAX PD 52409) 4252887
J.R.Johnson and Ida Myrtle Johnson hw
to Willard S.Crow and Rose Marie Crow hw
Fp agree to sell and sp agree to pur the fore inkcw

Lots 1 to 7 inc and Lots 9 to 12 inc Blk 1 Replat of Blks 13 and 14 East South Park, acc to plat thof rec invol 16 of plats pg 69 rec of sd Co, except thi ptn of sd Lot 7 conveyed to kc for rt of way 14th Ave S Bridge, relocation by deed rec under aud file No 2562653 rec of sd Co, and excett thi ptn of sd Lots 8 to 12 inc eyed to Commercial Wat. wat and 809621 rec of sd Co under aud file No 668122

Also any ptn of Lot 8 sd Blk 1 not eyed to kc for 14th Ave S Bridge Relocation by deed rec under aud file No 2562654 rec of sd Co

Togthr with gas service station equip ent acc to lease betw the sellers hin and Union Oil Co of Cal as lessee dtd May 19-50; gas tanks loc in trailer utility house and misels garden equipment

The ppls $65,000. of wch $14,000. has been pd rect aded and bal $51,000. plus int at 5% pa mbl $400. or more on Aug 1-52 and inc int and $400. or more on the 1st of ~~Aug 1952~~ xxteach mo thafter until pd in full so pts to inc int Pur shall not be permitted to pay more than $18,000. in any one yr except the final yr wch he shall not be

(3) contd

4252887-2

to pay more than $18,000. inc the $14,000. before pd

This cont and the deeds to be gvn in pulat thof is subj to the fol des re leases, each of wch affects the different ptns of sd prem

1. Lease dtd May 19 50 exc by J.R.Johnson and Ida Myrtle Johnson hw as lesors and Union Oil Co of Cal as lessee, for a term beg Jun 1-50 and ending May 31-55 rec Jun 30-50 in vol 128 of leases pg 369 under aud file No 4031206 rec of sd Co

2. Lease drd May 17-50 exc by J.R.Johnson and Ida M.Johnson hw as lesors and O.L.Davis and C.J.Davis as lessees for a term of 2 yrs ~~xxxx~~ rec Jul 5-50 in vol 128 of leases pg 400 under aud file No 4032054 rec of sd Co

3. Lease with option of renewal dtd Sep 25-51 exc by John R.Johnson as lessor and Jimmie Wong as lessee for a period of 1 yr beg Sep 1-51 and ending Aug 31-52 rec Sep 28-51 in vol 134 of leases pg 135 under aud file No 4173698 rec of sd Co

4. Lease dtd May 28-52 exc by John R. ~~xxxx~~ Johnson and Ida Myrtle Johnson hw as lessors and Claud L.Turner, as lessee for a term of 5 yrs from Jun 1-52 rec Jun 11-52 in vol 137 of leases pg 50 under aud file No 4244170 rec of sd Co

5. ~~Unrec~~ lease dtd Oct 31-51 exc by J.R.Johnson as lessor and Orville A.Dixon as lessee for a mo to mo tenancy only from Nov 1-51

The pur is entitled to take possession on Jul 1-52

and agrees to p

4252887-B

Pur agree to pay bef del alstxx and alsmts th may hafter become due agst sd prem and assumes all hazards of damage to or destn of any impvts thom or hafter placed then and of the taking of sd prem or any part thof for pub uses

Pur agree to keep bldgs in (provds for int at 10% pa after dflt)

Pur agree tht full inspection has been made and sp is sat with sm at date hof

The seller has procured or agrees within 10 days fromdate to procure from WTICo a pur pol of ti ins ins the pur to the full amt of sd pp agst loss or damage by reason of defect in the ti of the seller to sd des prem or by reason of prior liens not assumed by the pur under this agmt

Seller agrees on full payt of pp to make exc and del to sp a g good and suff wd to sd des prem except as to lot 2 on wch a ded shall be gvn

Time is ess of this cont (with prov for forfeiture)

XCN OR sp does not acked

(Ml STCo)

(S)(S)

1

M Jul 11-52
Jul 9-62

4252888

Milford Collins and Virginia Jane Collins, mwr to Seattle Mortgage Company, a wn corp

lr E, S, b, 3, cy and war unto sd sp the rights re ppty sit

Lot 2, blk 2 Assessor's Plat of Endolyne Addn to plat t... recdd in vol 5 of plats, 40 recs of ... conveyed to pc for road ...

1457
503

Cem D Apr 22-30 9-30 2599911
Apr 17-30 $180. (NOTED ONLY)
Evergreen Cemetery Co. of Seattle, a Wn corp
to Clara M.Morris
Cying to sp The W 9 ft of Lot 531 in Replat of Sec 3 of Evergreen Park * * Vol 31 of plats pg 6 cont 90 sq ft of ld mrl
(Ml sp 4456 Stoneway) ---

Assmt Cont & D Apr 22-30 9-43 2599912
Apr 14-30 val recd
George E.Adamek, a bach
to Joseph Baumgartner
Fp hby a t and so to sp tht certain cont entered into on Oct 15-27 betw fp him as seller and Paul Mohr and Ione Mohr, hw as pur for the sale and pur of the fdre sit in kcw

The S½ of Lot 20 and all of Lot 21 In Blk 1 of Ballard Park Add to the C of S, ko as map thof rec in vol 4 of plats pg 80 rec of sd Co togthr with all furniture as itemized in the cont and sd fp cy and qc sd des prem to sd sp who hby assumes and agrees to fulfill the condi of sd re cont and sd fp hby cov tht there is unpd on the prin of sd cont the sum of $1059.02
George E.Adamek
kcw Apr 14-30 by George E.Adamek, a bach bef A.J.Carlson np for sw res at s ns Jun 10-33 (Ml sp Arlington Hotel, City)

D Apr 22-30 9-44 2599913
Mar 27-30 $10.
S.L.Comrada (also kn of rec as Sam Comrada) and Ruth Comrada, hw
to Fairy E.Van Raalte, wf of Phineas Van Raalte
Fp cy and wrr to sp the fdre sit in kcw

S 10 ac of the N 20 ac of the E½ of NE¼ of Sec 10 Tp 23 N R 5 ewm except Co roads
(This deed is gvn subj to a mtg in the sum of $400. now of rec on sd prop)
S.L.Comrada
Ruth Comrada
kcw Mar 27-30 by S.L.Comrada and Ruth Comrada, bef E.F.Reser np for sw res at s ns Oct 15-30 (Ml WTICo)

D Apr 22-30 9-51 2599914
Apr 1-30 $10345
W.W.Shields, as Treas --- sn ss 1425275 ---
to J.R.Johnson
--- Mar 8-30 --- $2500. --- sp ---

Lots 1-2-3-4 and 5 Blk 1 East South Park, Replat of Blks 13 and 14 kcw
($1300.37 of the pp was applied to the liquidation of outstanding assmts)
--- sp --- fp --- sp his ---
W.W.Shields ---
Treas Sl Theo Christy ---
(Ml sp 8428-44th Ave So City)

PA Apr 22-30 9-53 2599915
Apr 7-30
Walter H Ellis of 3708 Clarington Ave, Los Angeles, Cal
to Samuel Hible, of Duvall, Wash
I, fp do make, constitute and appoint sp my true and lawful spcl atty for me and in my nm, pl and stead to handle all matters pertaining to my int in the est of William H.Ellis and Julia B.Ellis, giving and granting unto my sd atty full power and auth to do and perform all and every act whatsoever requisite and nec to be done in and about the prem as effectually as I could myself do if personally present, with full power of substn and revocation; and I do hby ratify and confirm all acts tht may lawfully be done in pursuance of this power.
Walter H Ellis
(S)

APPENDIX A.6

Select City Directories

CYPRESS

9209 Anderson Lester HSu 8125

CYRUS

3303 Anderson OrahJ Su 3917

DAKOTA

710 Small E W Gl 1383
914 Fitzgerald Wm Gl 0109
3109 Johnson R C Ra 5052
3111 Danbom E A Ra 2245
3606 Holzhauser W H Ra 3994
3623 Marsden Jos H Ra 0955
3714 DeaconessInstitutionsLakeside Church Ra 3827
3714 LakesideChurch Ra 3827
3721 Dunne Joseph groc Ra 0800
3802 Long W Ra 4191
4007 Staley C A Ra 2898
4710 Rayner Frank Ra 4871

W DAKOTA

1811 Denend C R We 1816
1901 ColemanFaith We 7278
2610 Jakoboni Tony We 2114
2612 Perry Watson We 2327
2620 KoksharoffNicholas N Rev We 5994
2637 Wells J B We 7310
2646 CrestChemicalCo We 0407
2811 Joy Scott W We 6064
2844 Sanders Harry We 1189
2847 McInnes Jno We 2055
3407 Meyers Fred E We 6974
4101 Smith Edw We 6545
4102 Thurlow Norman E We 6447
4105 Orth Ed O We 6582
4109 Hoover R C We 0857
4206 Vallance Dixon We 6952
4214 Walsh Frank E We 7018
4416 Leahy Frank B We 6356
4622 Perry J C We 1091
4803 Egloff L We 0998
4909 Larson B H We 6180
4915 Haglund Carl We 0064
5224 Brady W J We 7486
5306 Dickinson L W We 7169

DALLAS

8203 O'Brien Frank J Gl 1928

DALLAS CONT'D

8325 South Park Mkt Gl 1437
8333 Green JnoA&SonsGro Gl 0523
8429 Charles M M Gl 1382
8429 Fasso Jno E Gl 1382
8437 Haines C J Gl 1498
8440 Brown Chas Gl 1732
8458 Burdic R F Gl 0778
8602 Johnson J R Gl 0771
8609 Evans R B Gl 2338
8519 Carlson Kurt R Gl 2779
8600 Langseth Sam Gl 1256
8604 Wheeler B Gl 2865

DALLAS S

8765 Miller HoraceM Gl 1882

DAVIS

834 Lowrey FrancesMrs Be 4620
920 Kataisto Isaac Be 1124
926 Smith Oscar Be 4904
934 Olsen Carl E Be 2146

DAVIS PLACE

842 TaharaHarukichi Be 0334
900 Robison C S Be 1421
906 Cliney Geo Be 3252
909 White J C Be 2355
911 Napoli F A Be 2375
915 Greig JeanCameron Be 2366
922 Gregson L V Be 3254
941 Larsen Mrs D Be 2805

DAWSON

Ft Dawson Fay Geo FrancisOfc Gl 0085
Ft Dawson M & M Terminal Gl 0085
Ft Dawson Pioneer TowingCo Gl 2424
Ft Dawson SeattleWarehouseCo Gl 0354
Ft Dawson SuperiorPoleTreating Co Gl 0085
317 Krier Edw Gl 1384
427 Dodgen J T Gl 1116
1010 Zipp Jno J Gl 1880
1022 Berry Simon Gl 1877
1112 Cizin Mary Gl 1977
1115 Tidholm Victor Gl 1308
1121 Kelly James Gl 0605

1928
Source: Grey Seattle City Directory

W Dakota

1811	Denend C R	We 1816
2620	Koksharoff Nicholas	We 5994
2647	Gosa Earl Geo	We 6284
2844	Fry Bessie L	We 1189
3403	Stirling W S	We 1428
3509	Sparks Lovell A	We 5431
4106	Warner A W	We 7978
4214	Walsh Frank E	We 7018
4416	Leahy Frank B	We 6356
1622	Perry J C	We 1091
5224	Brady W J	We 7486
5512	Kelly R A	We 3948

Dallas Avenue

at 14th S	Warn's Garage	Gl 0625
8114	Montan Minnie C	Gl 2948
8120	Brookfield J C Mrs	Gl 2353
8325	Jacobs Glenn	Gl 2869
8438	Ditlefsen Arthur W	Gl 0488
8458	Burdic R F	Gl 0778
8529	Galletti Frank	Gl 2780

Dartmouth Avenue

1814	Banks Thomas	Ga 9993

Davis Place

846	McKillop James V	Pr 9667
900	Robison C S	Pr 8427
906	Cliney George	Pr 3052
909	White Calvin P	Pr 9471
922	Gregson L V	Pr 9935
934	Binnie Ruby	Pr 7412
941	Larsen D Mrs	Pr 5072

Dawson Street

ft	Coal Sales Co	Gl 2424
ft	Olympic Lighterage Co	Gl 2424
ft	Pioneer Towing Co	Gl 2424
ft	Superior Pole Treatg Co	Gl 0085
317	Krier Edward	Gl 1384
427	Hess J E	Gl 1134
1010	Zipp John J	Gl 1880
1135	De Voogt H	Gl 2236
1312	Mansell W H	Gl 0636
1337	Bossi Mary	Gl 0110
1505	Carter T W	Gl 1398
1520	Matheson Louis M	Gl 2694
1548	Smith Oliver	Gl 2451
1747	Henderson Katharine	Gl 2366
1758	Bussey William Jr	Gl 0056
2627	Bennett Joseph	Ra 5643
2630	Yamamoto B	Ra 5903
3022	Graham E F	Ra 2992
3538	Loranger R J	Ra 1994
3543	Jorgens Olive	Ra 0090
3731	Nornholm C L	Ra 1912
4215	Page M P	Ra 0337
4227	Cardner Ray A	Ra 5948
4425	Keenan Patrick	Ra 2011
4428	Kimball W B	Ra 1388
4435	Wake Geo T	Ra 5438
4442	Vamkros Catherine Mrs	Ra 3743
4615	Johnson William N	Ra 3604
4823	Haysom Jack	Ra 3407
4901	Crandall A R	Ra 2143
5101	Abram Frank	Ra 0166
5126	Hulbert Mary L	Ra 5314
5203	Thiry Arthur O	Ra 1708
5216	McDonald Norman	Ra 5705
5705	Gardner Herbert A	Ra 0509

W Dawson

1823	Moyer A M	We 4544
3917	Ramsey L C	We 4692
4111	Seeger Frank	We 0048
4114	Bourassa Charles A Dr	We 0322
4217	Blaine J W	We 4217
	Chambers L E	We 2889
	Cloud Wm R	We 1305
	Edwards Geo S	We 5439
	Putnam Delilah Miss	We 4624
	Serles Clarence	We 8931
4321	Strecker W J	We 7660
4326	Peterson Otto W	We 5969
4330	Lamke Archie L	We 6332
4334	Benham Chas M	We 3197
4409	Menaglia James	We 4511
4406	Frase Wm Mrs	We 3162
4412	Baird E Mrs	We 6509
4640	Clark Mollie Mrs	We 1375
4714	Clark Leonard L	We 3789
4723	Wilson C W	We 8102

W Dawson

4803	Skothiem Edwin	We 6644
4814	La Rocque J A	We 4672
4916	Bramlett Chas	We 2959
4818	Campbell Hugh	We 6841
5003	Michels Alex	We 1948
5011	Ability Window Cleaners	We 5522
5011	Pennington M C	We 5522

Day Street

2402	Castrow E H	Pr 9973
2405	Iacovacci John	Pr 8404
2406	Patricelli Liberato	Pr 9351
2415	Brooks Ora E C Mrs	Pr 8991
2423	Carlo Joe	Pr 7980
2427	Ward Hone Mrs	Pr 9726
2435	Davis C C	Pr 7678
2625	Zeuner Martin	Pr 9933
2637	Angelo Tony	Pr 9388
2645	Gatt John	Pr 9749
3119	Mt Baker Sanitarium	Pr 5765
3212	Walker Greta	Pr 3310
3308	Gilbertson Harry E	Pr 8377

Dayton Avenue

3627	Gillis D A	Me 1185
3634	Wetherel G W	Me 5491
3642	Greenwood J C	Me 6948
3648	Sutton James B	Me 7841
3649	Towle A M Capt	Me 0502
3667	Johnson Ossian	Me 4952
3668	Gilbert W H	Me 1176
3671	Adams Parke L	Me 3353
3952	Kohlman P	Me 0082
3952	Sweetland Wm F	Me 2421
3957	Spiller W	Me 3112
3960	Howard A J	Me 7563
3968	Schultz Peter Mrs	Me 8346
3971	Laskares James	Me 8391
4007	Meyer Oscar E	Me 7704
4015	Horton B W	Me 0545
4016	Davis J C	Me 6367
4017	Gibson Ross	Me 7919
4020	Steele Henry	Me 1271
4026	Steele Mary Edith	Me 1271
4035	Martin Emory L	Me 4173
4038	Josephson H	Me 3947
4114	Schlichting J B	Me 7642
4121½	Khile J M	Me 4569
4215	Zwanzig H	Me 9083
4222	Sundstedt M J	Me 3823
4223	Scheele H W	Me 4186
4227	Wilson John H	Me 1567
4233	Torney John A Jr	Me 2855
4237	Hamon Ray W	Me 3472
4317	Blood Geo H	Me 2636
4322	Terho August	Me 7284
4324	Foulk J S	Me 1719
4325	Nordquist M	Me 4807
4328	Hiles J E	Me 1485
4329	Peterson Carolina	Me 9282
4401	Leiren Hulda M	Me 5724
4402	Olson W B	Me 6119
4405	Mechtel N	Me 3998
4406	Hansberry Ross H	Me 6273
4411	Whitney B M	Me 4049
4416	Thomas B L	Me 5237
4420	Dougherty E A Mrs	Ev 0372
4429	Kennedy Edw H	Me 7544
4437	Sund Abner	Me 0285
4504	Buchanan John E	Me 7053
4504	Nordhaug A O	Ev 0488
4505	Bird J W Mrs	Me 0107
4510	Docker John	Me 1629
4512	O'Connor C M	Me 4616
4613	Rennie J W	Me 5514
4614	Tarman E H	Me 1343
4802	Adams T F	Me 3187
4811	Regal Chris	Me 5313
4815	Cachianiotis Geo	Me 6749
5904	Rudolph E E	Su 8718
5912	Reed Flora C Mrs	Su 0603
5915	Swift E M	Su 2868
6211	Warga B C	Su 2421
6214	Donnelly Geo H	Su 7480
6409	Hickerson M C	He 0848
6517	Cloes Albert P	Su 7212
6618	Burkheimer Wm D	He 2593
6622	Ahle Frank J	Su 7541
6703	Hodge C S	Su 2057
6708	Bechel Lawrence L	He 1147
6719	Patmore Amos	Su 1316
6723	Hollis K L	Su 9941
6727	Winchelt D C	He 0084
6810	Ernst C J Jr	Su 9083

1934
Source: Turner and Parr
Seattle City Directory

GOULD & GOULD INC.
PACIFIC NORTHWEST
GENERAL AGENTS
DEXTER HORTON BLDG.
Seattle
Branches
PORTLAND
SPOKANE

FUEL OILS
Bladine & James INC.
330 JOSEPH VANCE BLDG.
DIESEL AND STOVE OIL
UNION OIL CO. PRODUCTS
Main 411

The MacDougall & Southwick Co.
SEATTLE'S FIRST DEPARTMENT STORE
2nd and Pike
ELiot 7700
★ Mail and Phone Orders Promptly Filled

DAKOTA, W—Contd
2408 Cooke Florence I Mrs
2410 Sallee Glenn O
2501 Gillespie John C ◎
2507 Fink Jos
26th av SW intersects
2607 Salisbury Harold G
2609 Fleming Leo P
2610 Fuller Beecher W
2612 Houlis Velma Mrs ◎
2617 Newman Norman O
2620△Root Nicholas N ◎
2626△Root Nicholas ◎
2628 Stratton Henry L
2637 Barstow Horace H ◎
2647△Gosa Geo E ◎
2650 Parker Chas E
2651 Osborn Margt M Mrs
2652 King Robt N
28th av SW intersects
2810 Tucker John D
2811 Grubb Robt B ◎
2812 Frederiksen Albert L
2813 Wilson Jos
2822 Karoske Jas I ◎
2823 Vacant
2827 Wirth Chas
2831 Spadoni Marianna Mrs ◎
2837 Ghilardio Silvio ◎
2840 Higgins Barton N ◎
2841 Bacci Raffaelo
2842 Beaudry Wm ◎
2844 Bitonti Batista
2845 Cadle Harold V
2847 Randall Harry R
2849 McInnes Margt Mrs ◎
2856 Dickson Alice F Mrs ◎
2856½ Dale Alice K Mrs
Unopened to 34th av SW
3403△Simmons Lester H ◎
3407 Kelsall Christopher
35th av SW intersects
3509 Gervais Raymond P ◎
3617 Wilson Anna Mrs
3817 Johnson Armand E
4101 Gleason Francis M
4102 Clark Herbert A ◎
4105△Miller Russell J
4106△McDonald & Darling pntrs McDonald John
4109△Keniston Orlo W
4115 Wenquist Robt E
4202△Eyler Clifford H ◎
4206 Mann Huntley S ◎
4214△Walsh Frank E ◎ printer
4215 Marks Kathryn A Mrs ◎
California av intersects
4304 Puget Sound Power and Light sub sta
44th av SW intersects
4416△Leahy Frank B ◎
45th and 46th avs SW intersect
4614 Brown Thurston B ◎
4618 Randolph Harry A
4622△Perry Jas C ◎
47th and 48th avs SW intersect
4803△Egloff Leopold C ◎
49th av SW intersects
4903-21 Vacant
50th, 51st and 52d avs SW intersect
5218△Brady Wm J ◎
53d av SW intersects
5306 Bruck Max E ◎
5314△Patterson Chas H jr
54th 55th and 56th avs SW intersect

DALLAS AV—Fr 8150 10th av S se
8110 Cairns Anna M Mrs ◎
8112 Pasquan John
8114 VanVleck Harold
8114½△Holmquist Oscar H
8120△Montan Minnie C Mrs ◎
Southern intersects
8203 Johnson Wayne W
Rose intersects
8325△Jacobs G N gro and meats
8333 Vacant
12th av S intersects
8406△Little Coral E ◎
8406½ Taylor Herbert C
8410△Spencer Mfg Co machs Spencer Dean
8429 VanZile Lewis E
Baker Raymond T
8435 Vacant
8437 Haines Carl J ◎
8438 Cameron Rod E
8440½ Vacant
8442 Goodwin Etta B Mrs ◎
8457 Hagopian Leon shoe repr
8458△Burdic Chester F feed and seeds
14th av S intersects
8510△Warn Arth M ◎ garage
8511 Vacant
8519 Kirven Jos T
8523 Vogt Johanna B Mrs
8525 White Isabella Mrs
8529△Galletti Frank J ◎
8532 Luckhurst Clarence
8538 Menaglia Frank
8540 Wehrwein Lawrence D
8603△Healy Patk ◎
8661△Hogan Lydia ◎
8700 Wheaton Silas A ◎
8720△Harris Benj S
8724△Bradford E L
8773 Beals Patience A Mrs
8775 Hagglund Arth R
8790 Depasquale Jas
8791 Brown Jack
8900 Vacant
8904 Rilling Valentine

DARTMOUTH AV—Fr 2600 W Galer n
1810 Barr Geo ◎
(For other residents see Magnolia blvd)

DAVIS PLACE—Fr 1800 Dearborn se
834 Trapaso Luigi ◎
△Lowery Vera
842-62 Apartments
△Hendrickson Millard R mgr
Ackerman Edith M Mrs
Anderson Kenneth A
Bailey A Cal
Binkley Carl E
Gardner Wm H
Johnson Frank H
Nichols Joe
Lombardi John
Prather Donald
Reid Louis W
Schoonhoven Henry
Weaver Conrad
900△Williams Marion E
906△Cliney Mary M Mrs ◎
909 Costantino Angelo G ◎
910 VanGilder Harry
911△Napoli Frank F ◎
915 Greig Andrew
920△Kataisto Isaac V ◎
922 Gregson Louie V
923 Pagano Rocco ◎
926 Covello Salvatore T ◎
934△Shank Maizie Mrs
937△Ennaro Jos N ◎
939 Furfaro Anthony ◎
941 Larsen Gordon D ◎
949 Curulla Domenico ◎
951 Allen Elmer M
951½ Harrison Jos H
Bush pl intersects

DAWSON—Fr 5300 blk 1st av S e
123 Carter Vest G ◎
131 Hiett Oris W ◎
201 Read Eug H
207△Watson Elmer H
211 Biscanter Henry ◎
217 Guenther John ◎
Elliott Dorothea Mrs
3d av S intersects
301△Griffin E I ◎ bldg contr
305 Buzard Geo J ◎
317△Drotz Emil W ◎
317½ Minnesota Upholstering Shop
4th av S intersects
427△Hess J Edw ◎
5th av S intersects
517 Nichols Wm R ◎
523 Gjerdrum J Christian ◎
525 Vacant
525½ Roscow Jos ◎
6th av S and Denver av intersect
1010△Zipp John J ◎
1016 Ivanich Tony ◎
1022△White Arth W
Corson intersects
1112 Cizin Michl J ◎
1115 Sacco Jas C
1121 DeBels Madeleine Mrs
1122 Budinich Antonio J ◎
1126 Goodhart Thos W ◎
1127△Molitor Alfd J
1135△Welch Renew C
12th av S intersects
1208△Howard Rollie O
13th av S intersects
1312△Mansell Wm H ◎
1315 Maier Geo M ◎
1317 Gratteri Bruno A
△Lapsansky Aug J
1325△Lefcoski Adam J
1328 Hullihen Wm D ◎
1334△Truman Kathryn M Mrs ◎
1337△Bossi Jos A ◎
1338 Ames Donald B
1341 Vacant
1347△Bussanich Jack M ◎
1348 Welch Jos S
1355 Anseeuw Desire ◎
15th av S intersects
1503 Olson Olve W
1505 Buck Francis R
1507 Tessandore Henry R
1516 Antoncich John L
1520△Matheson Louis M ◎
1523 Olson Oscar ◎
1528△Marsland John W
1535 Bussanich John M ◎
1538 Carlson Martin ◎
1545 Lagozzino Danl ◎
1548△Carlson Clarence A
1552 Isernio Frank ◎
1563△Rodger Russell
1564 Piantini Amedeo C ◎
17th av S intersects
1717 Halverson Otto H ◎
Richards Chas P
1727△Spotts Frank W ◎
1730 Cain John R
1738 McEwen Carl L
1747△Henderson John ◎
1758 VanEe Evert
Unopened to 25th av S
2515△Steele Bernard E ◎
2627△O'Neil John K
2630 Vacant
27th av S intersects
2704 Aleinikoff Serje J ◎
30th av S intersects
3002△Powell Geo L ◎
3012 Chappell Geo B ◎
3016 Huckle Donald H ◎
3022△Graham Edw F ◎
3022½ Parks Chas E
3032 VandeBossche Camiel ◎
△Perrigo Leonard A

INCOME PROPERTY OUR SPECIALTY
FARMS HOMES INSURANCE
EVERGREEN REALTY CO
SALES 7522 BOTHELL WAY
RENTALS KENWOOD 47

1940
Source: Polk's Seattle City Directory

TP

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Adjoining

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Source

R.L. Polk Co Publishers

S DALLAS AVE 1970

OFFICES CONVENIENTLY LOCATED THROUGHOUT CENTRAL AND WESTERN WASHINGTON - MEMBER F.D.I.C.

PEOPLES NATIONAL BANK

A FULL SERVICE BANK

MAIN OFFICE 1414 FOURTH AVE. 344-2300 SEATTLE, WASH. 98111

SW DAKOTA ST—Contd
1101—Contd
PIONEER MARINE YARD
MCGRAGE WE5-7880
VACANT
---16TH AV SW INTERSECTS
1811 PRIOR LYLE R ●
---19TH AV SW INTERSECTS
1915 VACANT
---20TH AV SW INTERSECTS
2013 STEPHENSON JOHN D ●
WE7-9420
---21ST AV SW INTERSECTS
---22D AV SW INTERSECTS
---23D AV SW INTERSECTS
---DELRIDGE WAY SW
---INTERSECTS
---25TH AV SW INTERSECTS
2501 STORK ELLEN L MRS ●
WE7-0774
2507 FINK JOE ● WE2-6381
---ZIP CODE 98126
---26TH AV SW INTERSECTS
2620 WISHMAN PAUL E 938-0659
2647 MACE ANAIS A MRS ●
WE7-5213
---28TH AV SW INTERSECTS
2803 BETTINGTON ALICE E MRS
938-2176
2805 FILIGNO FIELD A 938-4649
2810 WARD DENNIS L WE7-2820
2811 SCRIBNER LESTER R ●
WE7-4992
2813 VACANT
2815 DUNNING RONALD D 938-2599
2816 KUCHAN ANTON ● WE5-3059
2817 UNDER CONSTN
2822 KAROSKE MARY K MRS ●
WE7-1073
2823 OJA GUST L ● WE5-4950
2827 WIRTH GRACE L ● WE5-0114
2830 UNDER CONSTN
2831 MC NAUGHTON JAMES J ●
WE5-4707
2832 STITZEL RICHD WE5-0883
2837 VACANT
2840 WHITING MANILLA D MRS ●
WE5-2654
2841 VACANT
2842 VACANT
2844 LARSON RICHD M
2849 YUNI EMIL A ● WE7-2451
2856 KAUFMAN CARL M ● WE7-5552
WADE CECILA
---34TH AV SW INTERSECTS
3403 BESSER RAYMOND T ●
WE5-0042
3407 GATLIFF KENNETH C ●
WE5-4830
---35TH AV SW INTERSECTS
3509 CARSTENSEN LAWRENCE E ●
WE2-2845
---36TH AV SW INTERSECTS
3616 WALBURGER KEITH J WE8-5610
3617 LOURE JAMES
---37TH AV SW INTERSECTS
3720 MC KENZIE GARY L ●
WE7-0341

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---38TH AV SW INTERSECTS
3817 BARNARD WM I ● WE5-1907
---ZIP CODE 98116
---39TH AV SW INTERSECTS
3903 WHITING JAMES C ● WE2-1725
WHITING ELIZ
3909 SAUVE ELMER H ● WE2-2203
---40TH AV SW INTERSECTS
4004 HOLCOMB ROBT E WE2-5744
---41ST AV SW INTERSECTS
4102 PELLETIER EDW M ● WE5-6523
4106 MORGAN DON A 938-3082
4108 WHITE CHRISTINE WE7-8165
4115 MUDTH PATRICIA A ●
WE7-1514
---42D AV SW INTERSECTS
4202 EYLER CLIFFORD H ●
WE2-8158
4206 STARKEY F D JR ● WE2-6915
4214 VOPNI PRINTING CO WE2-7018
VOPNI HERMAN ● WE2-7018
4215 FLYNN ERMA W MRS ●

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---CALIFORNIA AV SW INTERSECTS
4304 CITY LIGHT (SUB STA)
4309 FIRST LUTHERAN CHURCH
(OFC)
---44TH AV SW INTERSECTS
4415 AUSTIN MAUDE G MRS ●
WE5-6874
4416 LEAHY MARGT M MRS ●
WE2-7346
---45TH AV SW INTERSECTS
4501 SPAFFORD RICHD A ●
WE2-7490
4502 MITCHELL HOWARD W ●
WE5-6658
4508 ALFORD ROBT E WE7-3516
---46TH AV SW INTERSECTS
4609 HAMILL CHARLOTTE E MRS ●
4614 VACANT
4615 JANSSON LARENA M ●
WE2-4167
4618 DANA ANNE MRS WE5-9133
4622 GOPP DEAN A ● WE2-0674
---47TH AV SW INTERSECTS
---48TH AV SW INTERSECTS
4803 VACANT
4809 MICHALSEN DANL E

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---49TH AV SW INTERSECTS
4903 NAGERA DAVID F ● WE2-6860
4909 SQUIRES RUTH H MRS ●
WE5-2577
---50TH AV SW INTERSECTS
5008 CHURCHILL KEITH E ●
WE5-2447
5020 SIPES CLYDE A ● WE2-9258
---51ST AV SW INTERSECTS
---52ND AV SW INTERSECTS
5203 SENSKE ROGER A ●
5218 STRUN FREDERIC L ●
WE5-8313
5226 HAYNIE H THERON ● WE5-3582
5234 FECKER EARNEST E ●
WE7-0899
---53D AV SW INTERSECTS
5303 LAWLESS JACK W ● WE2-7391
5306 VACANT
5309 WRIGHT RONALD T ● WE8-5352

5314 GEISER A J JR
5317 VACANT
5323 LANDSTROM GRACE M MRS ●
WE5-1957
---54TH AV SW INTERSECTS
5404 STURGESS ROY F WE5-4619
5414 GALLOWAY DENNIS M ●
WE2-0784

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---55TH AV SW INTERSECTS
5504 WILMOT ROBT M ● WE5-2604
5515 BELLAM JOSEPH E ● WE7-6726

---203

DALLAS AV S —FROM 8105 10TH AV S SOUTHEAST

---ZIP CODE 98108
8110 UNDER CONSTN
8112 VACANT
8114 GENOVESE SAM J ● RO7-3094
8114½ LOVE JAMES RO2-2237
8120 NELSON JOYCE W
---S SOUTHERN INTERSECTS
8203 VACANT
8215 VACANT
8217 UNDER CONSTN
8220 KNUTSON OPAL MRS ●
RO2-4460
---S ROSE INTERSECTS
8305 SCHUBERT FLOOR COVERING
RO2-2300
8307 VACANT
8323 VACANT
8325A VACANT
8325B VACANT
28 VACANT
8331 VACANT
8333 KOLDENG CHARLES RC7-4490
---12TH AV S INTERSECTS
8406 DITSCHINGER JOHN ●
RO2-5213
8406½ DITSCHINGER MATT
8408 VACANT
8409 VACANT
8410 SPENCER AIRCRAFT
INDUSTRIES INC RO3-0210
8415 NAYLOR HERB RO2-4205
8429 ELLIOT FRED N ● RO3-1238
8432 BRADFORD ANNABELLE L MRS ●
RO2-1683
REAR HANSON KENNETH
8434 WELCH DOROTHY R MRS ●
RO2-8031
8435 HAGERTY IVA F MRS ●
RO3-2638
8436 VACANT
8437 HOFFMANN FRANK W ●
RO3-0764
8438 CAIRNES ANDREW G ●
RO3-4665
8440 NOLAN LAURA B RO7-4532
8442 MAC DONALD RUTH J MRS
8454 WALT'S BROILER RO2-9518
8456 RICKS J A RO2-3317
8457 WALT'S BARBER SHOP
RO2-9839
---14TH AV S INTERSECTS
8510 BIG O TIRE CO RO2-2610
8512 A-1 RADIATOR SERVICE
RO2-3230
HARVEY'S AUTO RESUILD
RO2-1043
8519 HAACK EDW H ● RO2-3079
8522 SOUTH PARK TRAILER CAMP
RO2-3880
SNYDER FRANK B RO2-3461
ADAMS JOHN ●
ALVEY FRED MRS
ANDERSON ALLEN L RO2-1759
BATES BILL ●
BATTS FLETCHER RO2-2536
BATTS L L ●
BEALS MARGIE ●
BEARDEN ROBERTA ●
BENALLY JEROME H RO3-9635
BOEPPLE WM J RO2-4161
BRICE S WILLARD
COENEN STEPH E RO2-2093
COLBERT JACK D RO7-4985
DEAN DON
DOBBS JOE ●
FETERSEN JOSEPH J
RO2-8409
FERBRACHE HARRY ●
GRONER HARRY
HENRY CARL H RO7-3774
JOHNSON ALFRED
JONES DAVID ●
KARL HUBERT F RO2-3738
KENDO FRED L RO2-2150
MC CUNE LAWRENCE ●
MC KIE HOWARD D RO2-4213
MEARNS SANDY R RO2-7615
MYSES W R RO2-3477
NEWTON ARTH
PHELPS GLEN
PIEHLER HUGH MRS
PRIMROSE RICHD R
REEVES BEULAH
RUST BEN
SCHOOLEY SARAH E RO2-2148
SIMENS AL
SIMONSON WILO
SNYDER F B RO2-3880
STARK DAVID ●
STICH MELVIN J RO2-4149
STOCKWELL FRANK
TAY ETHEL ●
TAYLOR ETHEL H MRS
RO2-3643
TAUSCHERE GEO
TOWSEND J ●
TRANSHER JOE
TREMLIN L H
WALKER JOE S ● RO3-2941
WEBER MADELINE RO3-9455
WHEELER A LEEROY RO2-3745
WOODS JACK D RO2-3713
YELVINGTON K ●
ZACHARIAS EMIL P RO2-2916
8523 PROFFIT BURT ● RO2-2355
8525 VACANT
8529 GALLETTI JAMES A ●
RO2-3706
8532 TURNER CLAUD L RO2-0430
8538 BENTLEY W L
8540 VACANT
8544 MARTIN EDITH L MRS
RO2-0145

8544½ APARTMENTS
1 SANNER VIOLET C RO2-2412
2 NELSON DONALD
3 HILBERT DENNIS RO2-8752
4 MC CLELLAN LENA N MRS ●
RO2-3096
8546 GERDES HELEN G MRS
RO2-1818
8548 RICHARDS KATHLEEN
---16TH AV S INTERSECTS
8603 HEALY TERESA MRS ●
RO2-1663
8604 SOUTH PARK BOAT HAVEN
RO2-9511
8661 FLETCHER THOS O RO2-8493
---17TH AV S INTERSECTS
8700 DUWAMISH MFG CO ROOFING
MATLS RO2-3600

---991

DANIEL PL NE —FROM JUNCTION NE 117TH AND 27TH AV NE NORTHWEST

---ZIP CODE 98125
11734 TITUS MARNA S MRS ●
EM4-4794
---NE 120TH ST INTERSECTS
12004 GIGGEY EARL M ● EM3-2038
12010 FREY LAWRENCE E ●
12022 SANDBERG CHRISTINA ●
EM2-7376

---319

DARTMOUTH AV W —FROM 2600 W GALER N 1 BLK TO MAGNOLIA PARK WAY THEN N FROM 1804 MAGNOLIA WAY W

---ZIP CODE 98199
1826 ANDREW GEO T ● AT2-6255

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DAVIS PL S —FROM 1800 S DEARBORN SOUTHEAST

---ZIP CODE 98144
834 VACANT
842 DAVIS PLACE APARTMENTS
EA5-1749
2 NO RETURN
3 CHARELD SYLVIA MRS
4 NEWTON GEORGIA MRS
5 VACANT
6 VACANT
7 VACANT
8 VACANT
9 CRAVENS JESSE EA3-9157
10 VACANT
11 ACRES JOSEPH
12 MC DANIELS WILLIE
13 HOLLINSWORTH MARY
---S CHARLES INTERSECTS
900 VACANT
905 NO RETURN
909 COSTANTINO JULIA MRS ●
EA4-6631
910 MISZTOWT ALBERT ●
911 NAPOLI ANTHONY ● EA3-5848
915 VOGEL WM ●
920 MAJORS VIRGINIA EA2-1467
923 NAK HENRY EA3-6208
926 VACANT
934 THOMAS EVELYN EA2-6256
937 MECUM MICHL F ● EA5-2431
939 FURFARO ANTONIO ● EA4-7688
941 LARSEN GORDON O ● EA5-0974
951 UNMOTO MOTOKO MRS ●
EA4-6369
951½ VACANT
---S SUSH PL INTERSECTS

---979

S DAWSON ST —FROM DUWAMISH WATERWAY EAST INTERSECTING 1ST AV S AT THE 5200 BLK

---ZIP CODE 98134
---E MARGINAL WAY S
---INTERSECTS
---COLORADO AV S INTERSECTS
26 WEST CHEMICAL PRODUCTS INC
JAN SUPS RO2-7676
53 CARTAGE & CONTAINER CO GENL FRT
54 OREGON-NEVADA CALIFORNIA MOTOR FREIGHT SYSTEM FRT TRANSPORT RO2-7700
---ZIP CODE 98108
---UTAH AV S INTERSECTS
---1ST AV S INTERSECTS
115 UNION CARTAGE WAREHOUSE & TRANSFER CO FRT TRANSPORT & STGE RO2-9111
120 WEYERHAEUSER COMPANY WHOL LBR RO2-7321
---2D AV S INTERSECTS
208 REYNOLDS INC FL COVERING SLS & INSTALLATION 767-7710
211 BISCANTER HENRY ● RO2-0949
217 BACON ANN L MRS ● RO2-9377
220 GENERAL ELECTRIC CO (SERV OPERATION) RO2-7272
225 VACANT
---30 AV S INTERSECTS
301 OSMAN RAYMOND
305 LAWS FREDK RO2-1643
317 MURPHY WALTER B

980

---4TH AV S INTERSECTS
---5TH AV S INTERSECTS
---6TH AV S INTERSECTS

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---DENVER AV S INTERSECTS
---CORSON AV S INTERSECTS
1112 VACANT
1115 POSADA SIMON RO3-2827
1119 NG HING ● RO2-9248
1121 MURPHY HARVEY J RO7-7683
1122 BUDINICH ANTHONY J ●
RO2-9382
1124 KOLBERG VEONA RO2-9089
1124½ VACANT
1127 GERBER JOHN J ● RO2-9093
1135 JOHNSON MARY ● RO3-8419
---12TH AV S INTERSECTS

1201 BARSTAD MAURICE ●
---13TH AV S INTERSECTS
1300 SAINT GEORGE CONVENT
RO2-0558
1312 ELSHIRE JACK L ●
1315 MAIER GEO M ● RO2-3953
1316 LARSON OSCAR M ● RO2-0684
1317 PALKOWSKI GEO S ● RO2-0590
1325 HERMAN PETER ●
1328 MC CORMACK DONALD RO3-0681
1334 TRUMAN KATHRYN M MRS ●
1337 BOSSI MARY T ● RO2-9156
1338 ALBA JOSEPH ● RO2-7839
1347 MEDINA ROBT L ●
1348 YOUNG LARRY ●
1355 VACANT

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---15TH AV S INTERSECTS
1503 STEGRIY ELWORTH P ●
RO2-7229
1505 GEOGHEGAN SCOTT N RO3-8799
1509 MC CLELLAND MARION M ●
RO2-0984
1510 FERRY FLETCHER F ●
RO2-9077
1515 HANSEN HENRY C ● RO2-9492
1516 VACANT
1520 CASTRO FELICIANA ●
RO7-5427
1523 OLSEN OSCAR ●
1528 BENNETT A LEROY ● RO2-9419
1529 TARABOCHIA OLGA C MRS ●
RO2-9232
1535 ZEITLER RAYMOND E ●
RO2-7437
1538 CARLSON RHODA A MRS ●
RO2-0838
1539 ANDERSON FRANK E ●
RO2-9365
1545 LAGOZZINO NICK ● RO2-7493
1548 COOPER ALF S ● RO2-9096
1549 FONTANA LOUIS U ● RO2-7805
1552 ISERNIO FRANK ● RO2-7161
1555 FONTANA ARMIDO P ●
RO2-9298
1559 DAVIS HUGH A ● RO2-7140
1563 VACANT
1564 BOWMAN ROBT M ● RO2-1223
---17TH AV S INTERSECTS
1705 LUNDE ALBERT R ● RO2-0598
1711 YOSHIMURA DICK N ●
RO2-7936
1712 HANSEN JULIANE H ●
1716 VISINTIN HENRY J ●
RO2-7214
1717 CUFF HERBERT S ●
1720 JUSTICE CLYDE F
1723 HASNESS VERN E ● RO2-0879
1724 CHINN ANDREW N ● RO2-9041
1727 SNODGRASS RON RO7-6694
1730 SCHOU RAE MRS ● RO2-7836
1737 GORSETT KENNETH C ●
1738 BARRINGER ARTH ● RO2-9183
1739 BOSSUYT ELMER H ● RO3-7606
1744 WINCH KENNETH C ● RO2-0084
1747 HENDERSON IDA J ●
1756 FOLEY NICK P ● RO2-7618
1758 VANEE EVERT ● RO2-0898
1763 THOMAS GRACE C ● RO2-0673
---19TH AV S INTERSECTS

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---BEACON AV S INTERSECTS
2401 MOORE GEO L ● PA5-9815
2407 MATSUMOTO HIROO M ●
PA3-0798
2414 ENGLISH S ● PA3-6152
2415 NAKAMURA JIRO ● PA2-7508
2419 NIKAMI ROBT Y ● PA3-8576
2511 GUEBARA MI H
2521 KECK THOS S JR ●
2600 KERKOF VINCENT R ●
PA2-4693
2601 CURRIE DOUGLAS E ●
PA5-6950
2609 ALLEN CLEO MRS ● PA3-7187
2615 SHANE NORMA ● PA3-0670
2618 PETTY ALF ● PA5-7988
2625 SHUKIS CHARLES ● PA2-2111
2627 MATTHEWS EUG ● PA2-7610
---27TH AV S INTERSECTS
2703 PETERSON STEVEN ● PA3-2881
2704 KIMKER DAVID D ● PA3-2729
2708 BIESSO ROSE M MRS ●
PA5-2690

127

---28TH AV S INTERSECTS
2804 MARTINO MATHEW J ●
PA3-5518
2805 DAVIDSON BEN PA3-1204
2815 WROGEMOEWEY DONALD ● ●
PA5-1765
2816 KLENTZ WM ● ● PA3-3106
2819 STEEPLES MILES R ●
PA2-5519
---29TH AV S INTERSECTS
2912 CAMBERN J DON ● PA3-2946
2913 DOUGAN KATH MRS PA3-5063
2916 BRADY WM PA2-8627
3002 WEBSTER PHYLLIS MRS ●
3012 PARKER MAXINE MRS
3016 LUNDIN LULA M ●
3027 GRITTENDEN WILL B ● PA3-3487
3032 VACANT
3033 MADNOT PETE ● PA5-9306
3034 LEWIS JESSE R ● PA2-5749
3040 GIBSON IDA L MRS MRS ●
PA5-0861
3043 LAM SUE MRS ● PA3-1082
3046 HIRAIWA JAMES E ● PA3-9124
3047 CYTRACEK AGNES B MRS ●
PA5-8357
---ZIP CODE 98118
---320 AV S INTERSECTS
3202 BYRNES JAMES P PA3-9207
3212 SPENCER LYNN M PA2-0919
3220 DAY MARGT N MRS ● PA3-1710
---330 AV S INTERSECTS

125

---35TH AV S INTERSECTS
3502 VACANT
3508 CHIBA BAIN ● PA5-9639
3511 BOLSON BILL H ● PA3-1237
3514 HIRAGAYASHI SHUNGO ●
PA2-7715
3515 LUKE DAVID
3519 SAGAYSAY SAMMY ● PA3-1559
3520 KASHINO PAUL S ● PA2-1950
3523 BELL GRACE L MRS ●
3526 ROBINSON DANL ● PA5-6322

CENTRAL PONTIAC
SPECIALISTS FOR OVER 35 YEARS
BROADWAY AT PINE
LEASES ● SALES ● SERVICE ● PARTS
PHONE EA-4 7200

1970
Source: Polk's Seattle City Directory

APPENDIX A.7

Select Tax Assessor Records

3654-B

District 5333

Permit No.

Date

2 Addition EAST SOUTH PARK Replat Blks 13-14 Section Twp. Range EWM. Block 1 Tract or Lot No. 13

Description Cent Por

Lots 13 & 14 - 4 por Vac alley adj Less C & Rd

3 Address of Property 1421 Thistle

4 Fee Owner

5 Architect

6 Original Building Cost $ Owner-Tenant Occupied Rental per Month $ Estimated Rental per Month $

7 Condition of Exterior Good Interior Good Foundation Good Floor Plan Good Accept X Poor

BUILDING
- 1 One Family Dwelling
- Two Family Dwelling
- Store and Dwelling
- 1 No. of Stories
- 3 No. of Rooms
- Basement
- 3 First Floor (Ave 6 by 6 3)
- Second Floor
- Third Floor
- Attic

INTERIOR WALLS
- Plaster
- Jazz Plaster
- Ceiled
- Plywood
- 3 Common Board
- Open Studs
- 1 Painted
- Kalsomine
- 2 Papered
- Unfinished Walls

FLOORS
- Hardwood ( )
- 3 Fir
- Shiplap
- Unfinished
- Linoleum

FIREPLACE—No.
- Brick
- Tile Face
- Concrete
- Cobblestone
- None
- Unfinished

INTERIOR TRIM
- Hardwood
- Mahogany
- 3 Fir
- Unfinished

PLUMBING
- 6 No. of Fixtures
- 1 Tub—Leg or Rem.
- 1 Toilets
- Basin—Pedestal
- 1 Sink
- Shower in Tub
- 1 Hot Water Tank
- 1 Laundry Trays
- None
- Unfinished
- Expensive
- Good
- X Average
- Cheap
- D. S. Sewer Conn.

TILE WORK FT.
- X Floor-Wall Bath (L 4 W)
- Floor-Wall Lavatory
- Floor-Wall
- Floor-Wall
- Floor-Wall Shower
- X Floor-Wall Kitchen
- X Kitchen Drain Board
- None
- Unfinished

ATTIC
- Plaster
- Board
- Ceiled
- Stairway Open Closed
- Useful
- None
- Unfinished

PORCHES
- One Story
- Two Story
- Unroofed
- Brick and or Concrete
- Cement Floor
- Recessed
- Glassed
- Enclosed

EXTERIOR WALLS
- Boards and Batten
- Shiplap
- Rustic
- Fir Siding
- X Cedar Siding
- Shingles
- Shakes
- Stucco on Lath
- Brick Veneer
- Kind
- Stone
- Fabricated Steel
- Unfinished

CLASS 1-2-3-4-5-6-7 NO GOOD MEDIUM CHEAP

Date Built 1943 ☒ Finished ☐ Unfinished ☐ Remodeled

~~Effective~~ Age 1 Years Future Life Years

Dep. for Cond. Dep. for O. B. Dep. for E. S. Total 1940

Built-Ins Usual

CONSTRUCTION (4)
- X Single
- Double
- Solid
- Very Cheap
- X Cheap (Ave)
- Medium
- Good
- Special

Corner Joints

CEILING HEIGHT

	ft.	in.
Basement		
1st Floor	7	6
2nd Floor		
3rd Floor		
Attic		



Assessed Value $

BASEMENT
- Full
- Part % Con.
- To 1st Floor Joist Thick
- Frame and Concrete
- ft. ft.
- Cement Blocks
- Floor
- Recreation Room
- Garage
- Plastered
- Drain
- None
- Unfinished

HEATING
- X Stove
- Pipeless Furnace
- Hot Air Furnace
- Hot Water
- Steam
- Gas
- Vapor
- Air Cond. Fan
- Stoker
- Oil Burner
- Air Cond. Complete

FOUNDATION
- X Concrete 6" Thick
- Cement Blocks
- Stone or Brick
- Wood Post Concrete Block
- Porch

EXTRA FEATURES
- Bay Window Story
- Beam Ceiling
- Cathedral Ceiling
- Dormers

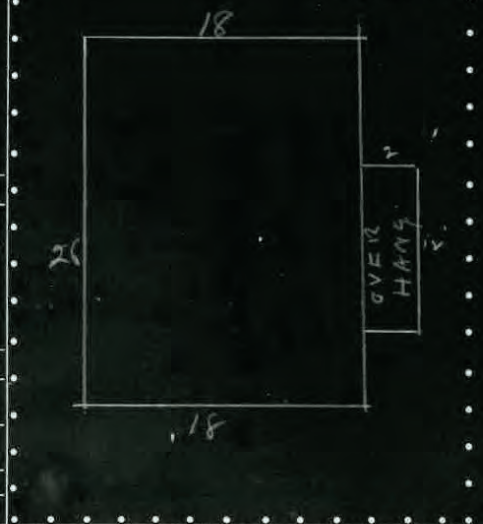
ROOF
- ~~Shingle~~
- X Composition 5 V
- Tile or Slate
- Tar and Gravel
- Tar Paper

FLOOR CONSTRUCTION
- 1st Floor Joists 2 x 6
- Bridged
- Post Size 4 x 6
- Beam Size x

GROUND FLOOR AREA SCALE ☐ = FT.

488 Sq. Ft.

1958 — 4 5 0 — 5 6 — 5 0 0 — 4 by 6 3 — 1400



Other Buildings	Construction	Floor	Roof	Sty.	Dimensions	S. F. Area	Factor	Value	% Dep.	Deprec.	Net Value
Garage					x			$		$	$
5 by 12 Shed	Adobe	wood style		1	15 x 11	165		$		$	$
					x			$		$	$
					x			$			

1411 to 1432 Thistle Street

LIMITS	ROAD	SCHOOL	WATER	FIRE	TOTAL ACREAGE	TIMBER	IMPROVED	UNIMPROVED

YEAR	AC	LAND	BLDGS.	TOTAL	BY	DATE	REASON	FEE OWNER	DATE
			350						
19			700						
19									
19									
19									
19									
19									
19									
19									
19									
19									
19									
19									
19									
19									
19									

District 5333

Permit No.

Date

2 Addition EAST SOUTH PARK
Section Twp. Range EWM. Block 1 Tract or Lot No. 13
Description S'd Por

3 Address of Property 1419 - Thistle
4 Fee Owner
5 Architect
6 Original Building Cost $ Owner-Tenant Occupied Rental per Month $ Estimated Rental per Month $
7 Condition of Exterior Good Interior Good Foundation Good Floor Plan Good Accept X Poor

BUILDING
- 1 One Family Dwelling
- Two Family Dwelling
- Store and Dwelling
- 1 No. of Stories
- 2 No. of Rooms
- Basement
- 3 First Floor
- Second Floor
- Third Floor
- Attic

Arb Exp'63

TILE WORK FT.
- X Floor-Wall Bath
- Floor-Wall Lavatory
- Floor-Wall
- Floor-Wall
- Floor-Wall Shower
- X Floor-Wall Kitchen
- X Kitchen Drain Board
- None
- Unfinished

ATTIC
- Plaster
- Board
- Ceiled
- Stairway Open Closed
- Useful
- X None
- Unfinished

PORCHES
- One Story
- Two Story
- Unroofed
- Brick and or Concrete
- Cement Floor
- Recessed
- Glassed
- Enclosed

EXTERIOR WALLS
- Boards and Batten
- Shiplap
- Rustic
- Fir Siding
- X Cedar Siding
- Shingles
- Shakes
- Stucco on Lath
- Brick Veneer
- Kind
- Stone
- Fabricated Steel
- Unfinished

INTERIOR WALLS
- Plaster
- Jazz Plaster
- Ceiled
- Plywood
- 3 Board
- Open Studs
- 1 Painted
- Kalsomine
- 2 Papered
- Unfinished Walls

FLOORS
- Hardwood ( )
- 3 Fir
- Shiplap
- Unfinished
- Linoleum

FIREPLACE—No.
- Brick
- Tile Face
- Concrete
- Cobblestone
- None
- Unfinished

INTERIOR TRIM
- Hardwood
- Mahogany
- 3 Fir
- Unfinished

PLUMBING
- 6 No. of Fixtures
- 1 Tub—Leg or Pem.
- 1 Toilets
- 1 Basin—Pedestal
- 1 Sink
- Shower in Tub
- 1 Hot Water Tank
- 1 Laundry Trays
- None
- Unfinished
- Expensive
- Good
- X Average
- Cheap
- D. S. Sewer Conn.

CLASS 1-2-3-4-5-6-7 NO GOOD MEDIUM CHEAP
Date Built 1943 X Finished ☐ Unfinished ☐ Remodeled
~~Effective~~ Age 19 Years Future Life Years
Dep. for Cond. Dep. for O. B. Dep. for E. S. Total 19%



Built-Ins
Usual

CONSTRUCTION (4)
- X Single
- Double
- Solid
- Very Cheap
- X Cheap Arb
- Medium
- Good
- Special
- Corner Joints

CEILING HEIGHT

	ft.	in.
Basement		
1st Floor	7	6
2nd Floor		
3rd Floor		
Attic	3	

BASEMENT
- Full
- Part % Con.
- To 1st Floor Joist Thick
- Frame and Concrete
- ft. ft.
- Cement Blocks
- Floor
- Recreation Room
- Garage
- Plastered
- Drain
- None
- Unfinished

FOUNDATION
- X Concrete 6" Thick
- Cement Blocks
- Stone or Brick
- Wood Post Concrete Block
- Porch

ROOF
- ~~X Shingle~~
- X Composition 5 C
- Tile or Slate
- Tar and Gravel
- Tar Paper

HEATING
- X Stove
- Pipeless Furnace
- Hot Air Furnace
- Hot Water
- Steam
- Gas
- Vapor
- Air Cond. Fan
- Stoker
- Oil Burner
- Air Cond. Complete

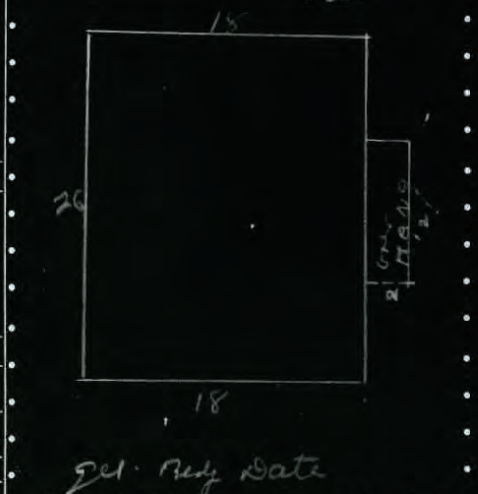
EXTRA FEATURES
- Bay Window Story
- Beam Ceiling
- Cathedral Ceiling
- Dormers

FLOOR CONSTRUCTION
- 1st Floor Joists 2 x 6
- Bridged
- Post Size 4 x 6
- Beam Size x

GROUND FLOOR AREA 488 Sq. Ft.

SCALE ☐ = FT.

1958 - 450 KR 56
650 - Exp '63
1300



Est. Req. Date

Other Buildings	Construction	Floor	Roof	Sty.	Dimensions	S. F. Area	Factor	Value	% Dep.	Deprec.	Net Value
Garage				1	15 x 11	165		$ 52		$	$
					x			$		$	$
					x			$		$	$
					x			$		$	$

LIMITS	ROAD	SCHOOL	WATER	FIRE	TOTAL ACREAGE	TIMBER	IMPROVED	UNIMPROVED

YEAR	AC	LAND	BLDGS.	TOTAL	HV	DATE	REASON	FEE OWNER	DATE
			850						
19			650						
19									
19									
19									
19									
19									
19									
19									
19									
19									
19									
19									
19									
19									
19									
19									

1. DISTRICT 8 LIMITS CO. CODE NO. County PERMIT NO. DATE

2. ADDITION East South Park Replat Blks 13 & 14 SECTION TWP. N. RANGE EWM. BLOCK 1 TRACT OR LOT NO. 13 DESCRIPTION

3. ADDRESS OF PROPERTY 1423 Thistle St. CONTRACT PURCHASER

4. FEE OWNER Wm. L. McKee, Trust 1-8-37

5. ARCHITECT CONTRACTOR

6. ORIG. BUILDING COST $ OCCUPIED BY Owner RENTAL PER MONTH $ ESTIMATED RENTAL PER MONTH $ 15.00

7. CONDITION OF EXTERIOR Fair INTERIOR Fair FOUNDATION Fair FLOOR PLAN Accept.

8. BUILDING: 1 Fmly. Dwel. / 1 Sty. / 5 Rooms / 5 1st Floor

INTERIOR WALLS: 5 Plaster

FLOORS: 5 Fir

FIRE PLACE: None

INTERIOR TRIM: 5 Fir

PLUMBING: 5 Fixtures / 1 Tub-Leg / 1 Toilet / 1 Basin / 1 Sink / 1 H.W. Tank / Average

TILE WORK: ~~None~~ '56 Bath floor Kitchen floor for mica-drainboard

ATTIC: None

HEATING: Stove

BASEMENT: ~~None~~ full frame + concrete drain

FOUNDATION: W.P. Conc.B. / 2 Pchs. P. & B.

ROOF: Shingle Comp. '56

EXTERIOR WALLS: ~~Shingle~~ Asb. Shakes

PORCHES: 2 1-Story / 2 Roofed

EXTRA FEATURES: None

BUILT-INS: Usual

CONSTRUCTION (4): Double-Medium-

CEILING HEIGHT: 1st Floor 8'

9. CORNER JOINTS Shingle DOWN SPOUTS SEWER CONNECTED No

10. FIRST FLOOR JOIST SIZE 2 x 6 AND 18 INCH CENTERS BRIDGED No

11. FIRST FLOOR JOIST SUPPORT COLUMN OR POST SIZE 6 x 6

12. CLASS OR GRADE NO. 1 SHAPE NO.

13. BUILDING FINISHED OR UNFINISHED Finished

14. DEPRECIATION: CONDITION ~~20~~ 65 % OBSLSE. % ECON. SUIT % TOTAL 48 %

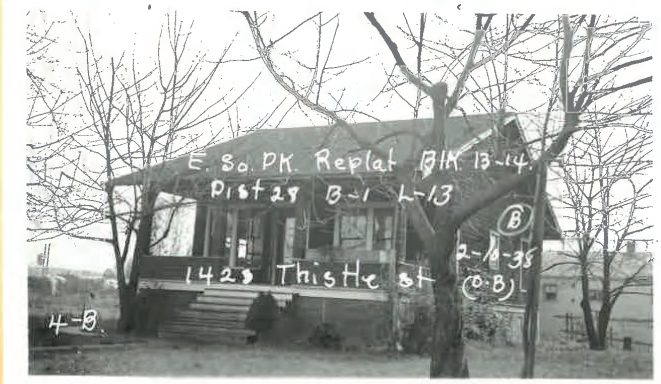
DATE BUILT 1913 REMODELED No

~~EFFECTIVE~~ AGE 23-48 YEARS FUTURE LIFE 10 YEARS

LAND INFORMATION

1. SIZE x TOPOGRAPHY Level GRADE On grade FEET
2. STREET ROAD No SURFACE Dirt ALLEY No
3. SIDEWALK No SEWERAGE Sewer WELL ELECT. PUMP
4. LANDSCAPING Lawn & Shrubs COND. Good
5. TREND Static VALUE OF LAND
6. USE OF DISTRICT Residential VIEW River
7. RESIDENTIAL Poor-Old ZONED

REMARKS



MAIN BUILDING

DIMENSION	SQ. FT. AREA
24 x 32	768
x	
x	
x	
PCH. 7 x 24	168
PCH. 6 x 18	108

IMPROVEMENT VALUE

MAIN BUILDING $ ~~390~~ 700 Exp '63 1400

OTHER BUILDINGS $ ~~70~~

TOTAL $ ~~460~~ 500

ASSESSED VALUE 50% $ ~~230~~ 250

DATE 11/23/37

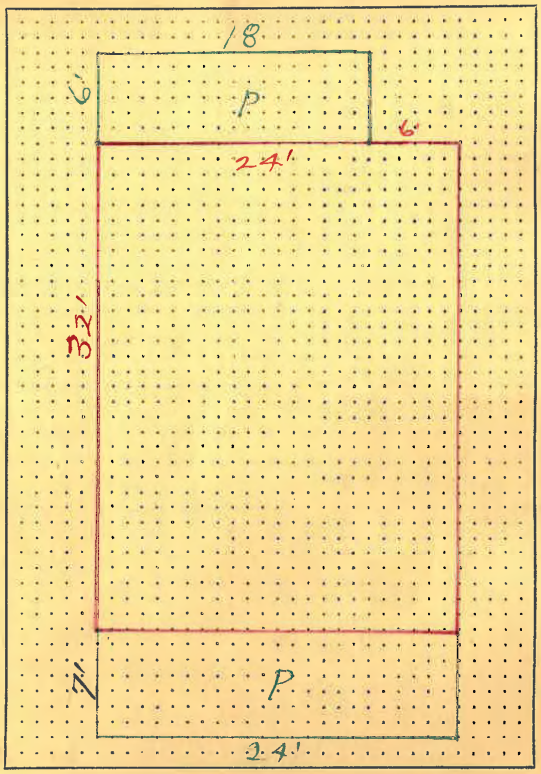
1958 — ~~1100~~ 700 1400

OTHER BUILDINGS	CONSTRUCTION	FLOOR	ROOF	STY.	DIMENSION	AREA	VALUE
GARAGE ~~Shed~~	~~Single wood~~	Boards	Shg.	1	10 x 10	100	$ ~~70~~
					x		
					x		
					x		
					x		

O C	OWNER OR CONTRACT PURCHASER	DATE	FILE NO.	PRICE	MTGE.	STAMP

REMARKS

FLOOR PLAN



FRONT

LAND CLASSIFICATION AND SEGREGATION

SCALE ONE INCH 100 FEET TO 2½ ACRES OR 330 FEET

THIS SQUARE INDICATES 2½ ACRES

SECTION NE 32

TWP. 24 N

RANGE 4 E

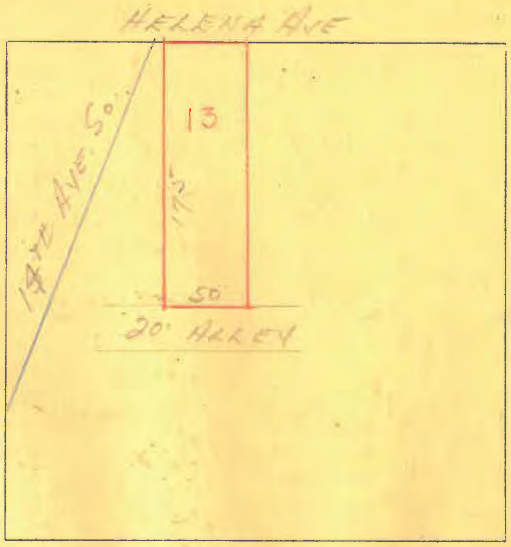
AERIAL PHOTO

QUARTER MAP

PLAT MAP 45336

TAX LOT NO.

PARCEL NO.





YEAR	AC.	LAND	BLDG'S.	TOTAL	DATE	BY	REASON	LAND DECREASE	LAND INCREASE	BUILDING DECREASE	BUILDING INCREASE
19											
19											
19											

District 5383

Permit No.

Date

2 Addition EAST SOUTH PARK Replat B165 13 x 14 Section Twp. Range EWM. Block 1 Tract or Lot No. 14

Description So Pc

3654-B

Lens Co Rd

3 Address of Property 1411 THISTLE

4 Fee Owner

5 Architect

6 Original Building Cost $ Owner-Tenant Occupied Rental per Month $ Estimated Rental per Month $

7 Condition of Exterior Good Interior Good Foundation Good Floor Plan Good Accept X Poor

BUILDING
- 1 One Family Dwelling
- Two Family Dwelling
- Store and Dwelling
- No. of Stories
- 3 No. of Rooms
- Basement
- 3 First Floor
- Second Floor
- Third Floor
- Attic

TILE WORK FT.
- X Floor-Wall Bath
- Floor-Wall Lavatory
- Floor-Wall
- Floor-Wall
- Floor-Wall Shower
- X Floor-Wall Kitchen
- X Kitchen Drain Board
- None
- Unfinished

ATTIC
- Plaster
- Board
- Ceiled
- Stairway Open Closed
- Useful
- X None
- Unfinished

PORCHES
- One Story
- Two Story
- Unroofed
- Brick and or Concrete
- Cement Floor
- Recessed
- Glassed
- Enclosed

EXTERIOR WALLS
- Boards and Batten
- Shiplap
- Rustic
- Fir Siding
- X Cedar Siding
- Shingles
- Shakes
- Stucco on Lath
- Brick Veneer Kind
- Stone
- Fabricated Steel
- Unfinished

Built-Ins

INTERIOR WALLS
- Plaster
- Jazz Plaster
- Ceiled
- Plywood
- 3 Compo Board
- Open Studs
- 1 Painted
- Kalsomine
- 2 Papered
- Unfinished Walls

FLOORS
- Hardwood ( )
- 3 Fir
- Shiplap
- Unfinished
- Linoleum

FIREPLACE—No.
- Brick
- 1 Tile Face
- Concrete
- Cobblestone
- None
- Unfinished

INTERIOR TRIM
- Hardwood
- Mahogany
- 3 Fir
- Unfinished

PLUMBING
- 6 No. of Fixtures
- 1 Tub—Leg or Rem.
- 1 Toilets
- 1 Basin—Pedestal
- 1 Sink
- Shower in Tub
- 1 Hot Water Tank
- 1 Laundry Trays
- None
- Unfinished
- Expensive
- Good
- X Average
- Cheap
- D. S. Sewer Conn.

CLASS 1-2-3-4-5-6-7 NO GOOD MEDIUM CHEAP

Date Built 1943 ☒ Finished ☐ Unfinished ☐ Remodeled

~~Effective~~ Age 1 Years Future Life Years

Dep. for Cond. Dep. for O. B. Dep. for E. S. Total 1%

F $



Assessed value $

CONSTRUCTION (4)
- X Single
- Double
- Solid
- Very Cheap
- Cheap
- X Medium Ave
- Good
- Special

Corner Joints

CEILING HEIGHT

Basement	7 ft. 0	in.
1st Floor	7 ft. 6	in.
2nd Floor	ft.	in.
3rd Floor	ft.	in.
Attic	ft.	in.

BASEMENT
- X Full
- Part % Con.
- To 1st Floor Joist Thick
- Frame and Concrete
- X 2 ft. 4 ft.
- Cement Blocks
- X Conc Floor
- Recreation Room
- X Garage
- Plastered
- Drain
- None
- Unfinished

FOUNDATION
- X Concrete 6" Thick
- Cement Blocks
- Stone or Brick
- Wood Post Concrete Block
- Porch

ROOF
- X Shingle
- X Composition 5C
- Tile or Slate
- Tar and Gravel
- Tar Paper

HEATING
- X Stove
- Pipeless Furnace
- Hot Air Furnace
- Hot Water
- Steam
- Gas
- Vapor
- Air Cond. Fan
- Stoker
- Oil Burner
- Air Cond. Complete

EXTRA FEATURES
- Bay Window Story
- Beam Ceiling
- Cathedral Ceiling
- Dormers

FLOOR CONSTRUCTION

1st Floor Joists 2 x 6

Bridged

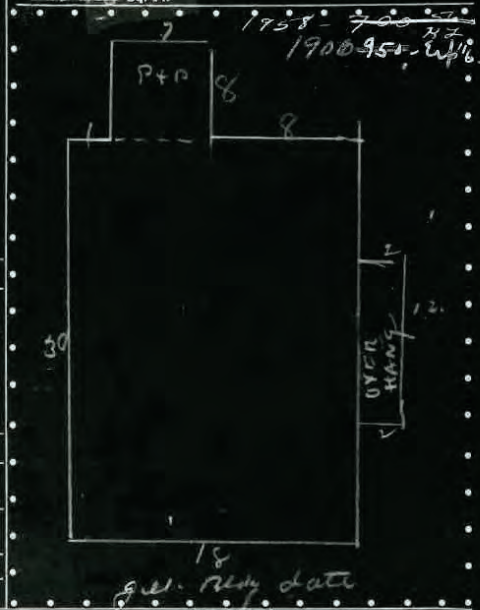
Post Size 4 x 6

Beam Size x

GROUND FLOOR AREA SCALE ☐ = FT.

596 Sq. Ft.

1758 - 1900 95 - 1963



Other Buildings	Construction	Floor	Roof	Sty.	Dimensions	S. F. Area	Factor	Value	% Dep.	Deprec.	Net Value
Garage	B				x			$		$	$
					x			$		$	$
					x			$		$	$
					x			$		$	$

LIMITS	ROAD	SCHOOL	WATER	FIRE	TOTAL ACREAGE	TIMBER	IMPROVED	UNIMPROVED

YEAR	AC	LAND	BLDGS.	TOTAL	BY	DATE	REASON	FEE OWNER	DATE
			600						
19			950						
19									
19									
19									
19									
19									
19									
19									
19									
19									
19									
19									
19									
19									
19									
19									

District 5333

Permit No.

Date

2 Addition EAST SOUTH PARK Replat B 115 13-14

Section Twp. Range EWM. Block 1 Tract or Lot No. 14

Description So. Por.

3 Address of Property 1415 Thistle

4 Fee Owner

5 Architect

6 Original Building Cost $ Owner-Tenant Occupied Rental per Month $ Estimated Rental per Month $

7 Condition of Exterior Good Interior Good Foundation Good Floor Plan Good Accept X Poor

BUILDING
- 1 One Family Dwelling
- Two Family Dwelling
- Store and Dwelling
- 1 No. of Stories
- 3 No. of Rooms
- Basement
- 3 First Floor
- Second Floor
- Third Floor
- Attic

INTERIOR WALLS
- 3 Plaster
- Jazz Plaster
- Ceiled
- Plywood
- Board
- Open Studs
- 1 Painted
- 3 Kalsomine
- Papered
- Unfinished Walls

FLOORS
- Hardwood ( )
- 2 Fir
- Shiplap
- Unfinished
- Linoleum

FIREPLACE—No.
- Brick
- Tile Face
- Concrete
- Cobblestone
- None
- Unfinished

INTERIOR TRIM
- Hardwood
- Mahogany
- 3 Fir
- Unfinished

PLUMBING
- 5 No. of Fixtures
- 1 Tub—Leg or Pem.
- 1 Toilets
- 1 Basin—Pedestal
- 1 Sink
- Shower in Tub
- 1 Hot Water Tank
- 1 Laundry Trays
- None
- Unfinished
- Expensive
- Good
- X Average
- Cheap
- D. S. Sewer Conn.

TILE WORK FT. L/N
- X Floor-Wall Bath
- Floor-Wall Lavatory
- Floor-Wall
- Floor-Wall
- Floor-Wall Shower
- X Floor-Wall Kitchen
- X Kitchen Drain Board
- None
- Unfinished

ATTIC
- Plaster
- Board
- Ceiled
- Stairway Open Closed
- Useful
- None
- Unfinished

PORCHES
- One Story
- Two Story
- Unroofed
- Brick and or Concrete
- Cement Floor
- Recessed
- Glassed
- Enclosed

EXTERIOR WALLS
- Boards and Batten
- Shiplap
- X Rustic
- Fir Siding
- Cedar Siding
- Shingles
- Shakes
- Stucco on Lath
- Brick Veneer
- Kind
- Stone
- Fabricated Steel
- Unfinished

CLASS 1-2-3-4-5-6-7- NO GOOD MEDIUM CHEAP

Date Built 1943? X Finished ☐ Unfinished ☐ Remodeled

~~Effective~~ Age 19 Years Future Life Years

Dep. for Cond. Dep. for O. B. Dep. for E. S. Total 19%

Built-Ins

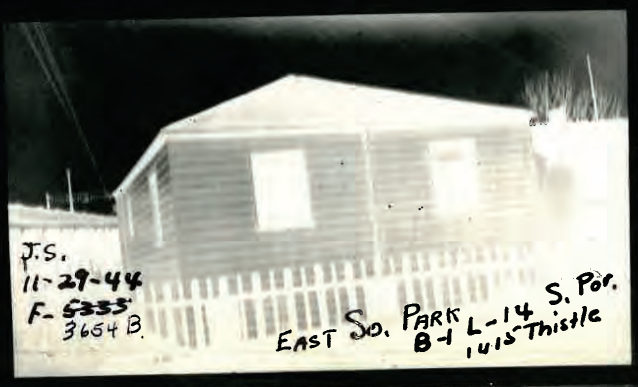
None

CONSTRUCTION (4)
- X Single
- Double
- Solid
- Very Cheap
- X Cheap
- Medium
- Good
- Special

Corner Joints

CEILING HEIGHT

Basement	7 ft. 6	in.
1st Floor	7 ft. 6	in.
2nd Floor	ft.	in.
3rd Floor	ft.	in.
Attic	ft.	in.



BASEMENT
- Full
- X Part 50 % Con.
- To 1st Floor Joist Thick
- Frame and Concrete
- X 2 ft. 5 ft.
- Cement Blocks
- Conc. Floor
- X Recreation Room
- Garage
- Plastered
- Drain
- None
- Unfinished

FOUNDATION
- X Concrete 6" Thick
- Cement Blocks
- Stone or Brick
- Wood Post Concrete Block
- Porch

ROOF
- X Shingle
- X Composition 5 V
- Tile or Slate
- Tar and Gravel
- Tar Paper

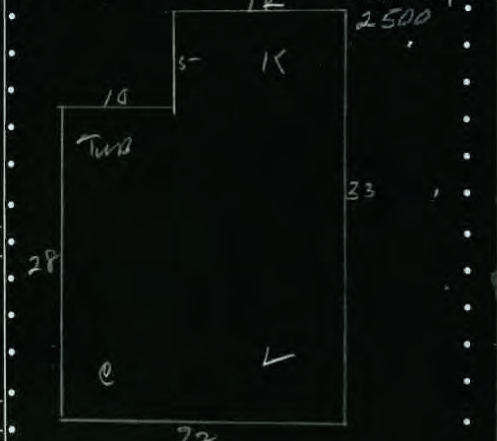
HEATING
- X Stove
- Pipeless Furnace
- Hot Air Furnace
- Hot Water
- Steam
- Gas
- Vapor
- Air Cond. Fan
- Stoker
- Oil Burner
- Air Cond. Complete

EXTRA FEATURES
- Bay Window Story
- Beam Ceiling
- Cathedral Ceiling
- Dormers

FLOOR CONSTRUCTION
- 1st Floor Joists 2 x 6
- Bridged
- Post Size 4 x 6
- Beam Size x

GROUND FLOOR AREA SCALE ☐ = FT.

676 Sq. Ft. 1958 ~~960~~ 56 -1250 up '63 2500



Gar. Bldg Date

Other Buildings	Construction	Floor	Roof	Sty.	Dimensions	S. F. Area	Factor	Value	% Dep.	Deprec.	Net Value
Garage old	S C	D	comp.		15 x 36	540		$		$	$
					x			$		$	$
					x			$		$	$
					x			$		$	$

218560-0070 ~~1750~~ ~~4250~~ ~~1040~~ 3015 21856 0070

LIMITS	ROAD	SCHOOL	WATER	FIRE	TOTAL ACREAGE			TIMBER	IMPROVED	UNIMPROVED
					SEWER	HSPTL.	AIRPT.	FERRY		
Co	2	1		11				LIB ~~Water~~		

YEAR	AC	LAND	BLDGS.	TOTAL	BY	DATE	REASON	FEE OWNER	DATE
1946		50	1250 (2)	1300	DC	1-45		Wm S McKee	1-8-37
1947		50	1250	1300				AC Nelson (S Co)	7-11-62
1954		200	1250	1450	B.	8-52	Rev.	E 47642	# 24,000
1954		530	2200	2730	LH	6-53	Merge		
1958		530	2600 (3)	3130	GG	9-27-57	roofs & remodel		
1958		1050	2600 (3)	3650	RR	1/14/57	Rev		
1962		1750	2600	4350	LL	5-22-61	Rev		
1964		1751	2800 (5)	4550	EB	8/24/62	Portfolio		
1965		1750	4250 (5)	6000	LL	1-16-64	Rev		
1967		2160	4250 (5)	6410	SDB	4-16-65	Rev	(Amd # V 1334 - 4/28/69)	
1971	L	4320 B	8500 T	12820*218560-0070-0		8/9	Chg Legal - #1150 - 5/16/70	- A-3957	
1973		13250	4400	17650	VA	4-28-72	Rev		
19									
19									
19									
19									
19									

15

1. DISTRICT 28
LIMITS CO.
CODE NO. COUNTY

2. ADDITION East South Park Replat of Blks 13 & 14
SECTION TWP. N. RANGE EWM. BLOCK 1 TRACT OR LOT NO. 14
DESCRIPTION Less Co. Road

3. ADDRESS OF PROPERTY Com S m/L Rec. Surf CONTRACT PURCHASER
4. FEE OWNER 1-F-37

LAND INFORMATION

1. SIZE OF TRACT OR LOT X TOPOGRAPHY Sloping GRADE On grade FT. 2. STREET-ROAD No SURFACE Dirt
ALLEY No 3. SIDEWALK No SEWAGE Sewer WATER City PUMP DRAINAGE
4. LANDSCAPING Natural CONDITION Fair 5. TREND Static VALUE OF LOT $ FRONT STREET
FACTOR $ SIDE STREET FACTOR $ DEPTH FACTOR $ CREDIT
6. USE Residential 7. DISTRICT Poor-Old

LAND USE	SOIL TYPE	CROPS-TIMBER STAND	NO. ACRES	VALUE ACRE	VALUE
				$	$
					$
					$
					$

O LAND SIZE X TOTAL $

C OWNER OR CONTRACT PURCHASER	DATE	FILE NO.	PRICE	MTGE.	STAMP

DISTRICT: ROAD	SCHOOL	WATER	FIRE
2.	1		

ASSESSED VALUE LAND

LOT $
UNIMPROVED ACRES $
IMPROVED ACRES $
OTHER LANDS $
TIMBER $
TOTAL ASSESSED VALUE 50% $
DATE

REMARKS

ASSESSED VALUE — DECREASE OR INCREASE IN ASSESSED VALUATION — LAND

YEAR	AC.	LAND	DATE	BY	REASON	DECREASE	INCREASE
1938		50					
19							
19							
19							
19							
19							
19							
19							
19							
19							

VACANT — KING COUNTY ASSESSOR — SEATTLE, WASHINGTON FRAYN PRINTING CO., SEATTLE

LAND CLASSIFICATION AND SEGREGATION

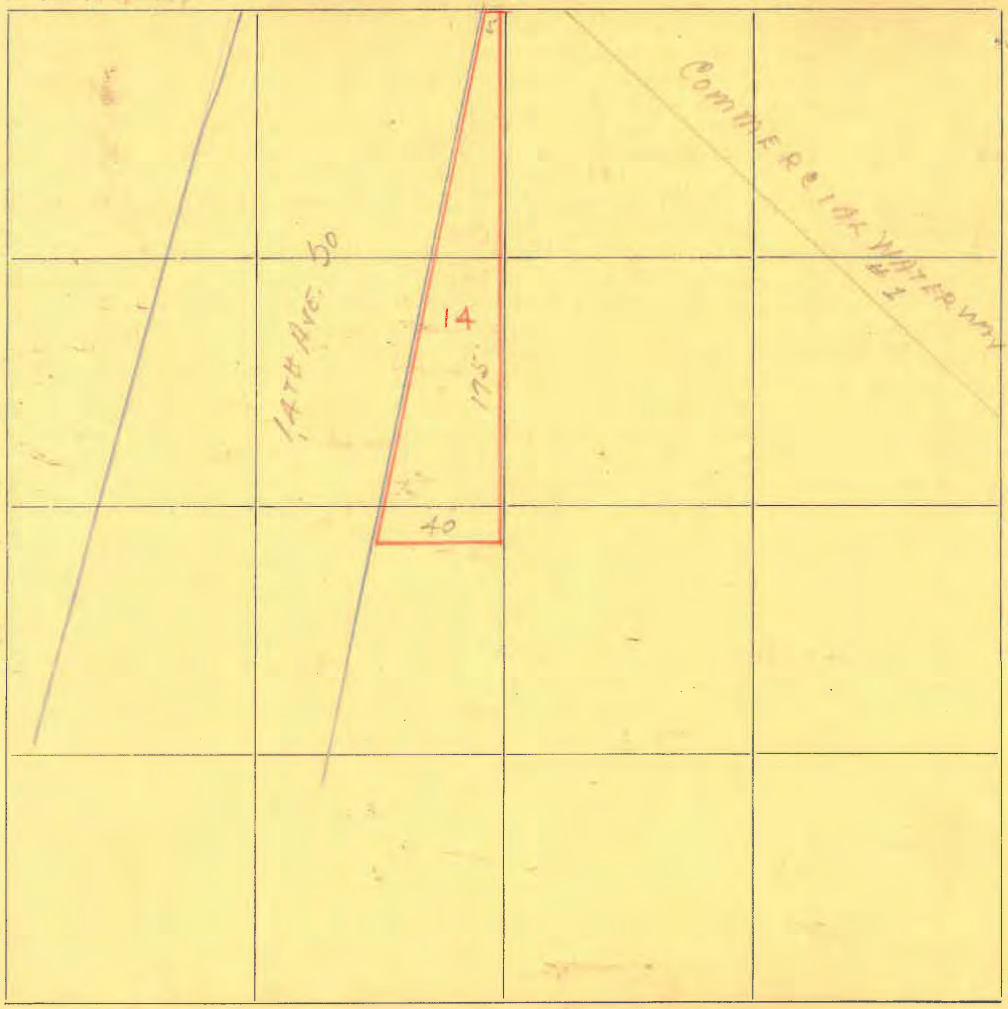
THIS SQUARE INDICATES 2½ ACRES

INDICATE BY AREAS, USE OF LAND BY MARKS AND TYPE BY LETTERS

HELENA HY

SECTION N.E. 32
TWP. 24 N
RANGE 4 E

TAX LOT NO.
PARCEL NO.



AERIAL PHOTO
QUARTER MAP
PLAT MAP 45333 Co

LAND USE		ACRES
111	CULTIVATED	
#	PASTURE	
OO	TIMBER	
XX	STUMP	
...	GRAVEL OR USELESS	
V	SWAMP	

LAND TYPE		ACRES
A	SHOT CLAY	
B	BOG	
C	PEAT	
D	SILT	
E	LOAM	
F	GRAVEL	
G	BOTTOM	
H	UPLANDS	
K	HILLY	

IF USED AS ¼ SECT. SCALE ONE INCH 400 FEET OR 160 ACRES OR 2640 FEET
IF USED AS ¼ OF ¼ " SCALE ONE INCH 200 FEET OR 40 ACRES OR 1320 FEET
IF USED AS ¼-¼-¼ " SCALE ONE INCH 100 FEET OR 10 ACRES OR 660 FEET

DISTRICT 5333

ADDITION East South Park Replat Blks 13+14

Section Twp. Range Block

PERMIT No. Lot 6

DATE

3654-13
Blk. 1 — Lot 6 & 7
& part of vac alley adj
Less R Road

8510 Dallas Ave.

Fee Owner A.M. Ward

Condition of Exterior Fair Interior Pan Topped Foundation

USE Garage + Sales

1	No. Stories
2 X	No. Stores
6	No. Rooms
	Basement
1	No. Offices
	No. Apartments
	1 rm. 2 rm. 3 rm.
	4 rm. 5 rm. 6 rm.

ROOF CONSTRUCTION

X	Frame Lam
	Mill Construction
	Rein. Concrete
	No. Trusses
	Wood Steel

ROOFING MATERIAL

X	Tar and Gravel
Or.	

FLOOR FINISHES

X	Fir Maple
	Oak 2" x 6" T&G
	Lino. 3" x 6" T&G
X	Cement 9440
	Terrazzo
	Raccolith 3" Tile Bed
	Tile Fir 900
Or.	

Tile Total / Lino Total

	Baths Fl. Walls
	Sq. Ft. Floors
	Sq. Ft. Walls
	Lin. Ft. Dr. Bds.
	Sq. Ft. Floors
	Sq. Ft. Walls
	Lin. Ft. Dr. Bds.
	Kit's. Fl. Walls

PLUMBING

	No. Fixtures
1	Toilets
	Tubs, Leg or Pem.
1	Basins, Ped.
1	Sinks
	Urinals
1	Showers (~~Tub~~) (Stall)
	Laundry Trays
	H. W. Tank Fl. Drains
No	Sprink. Sys. No. Hds.

TYPE OF CONSTRUCTION

X	Frame
X	Single Double
	Ordinary Masonry
	Mill Construction
	Class A Rein. Con.
	Stru. Steel and Con.
	Tile Brick
	Con. Rein. Con.

Good Med. Cheap X

Date Built 1918 Finished Unfinished Remodeled 1941

Effective Age Years Future Life Years

Dep. For Cond. Dep. For Ob. Dep. For Es. Total 65%

HEATING

	Stove
	Pipeless Furnace
X	Gravity H. A. for Lin Bldg
X	Air Cond., Fan Sys
	Areola Heats office + Shoe Room
	1-Pipe Steam Shoe Room
	2-Pipe St. or Vapor
	Hot Water
	Oil Burner
X	Coal Stoker

FOUNDATION

	Mud Sills
X	Post and Pier Bal.
	Brick
X	Concrete 100 Lin Ft
	Pile

REPRODUCTION COST Factor Make Up

F

$



Total $

Assessed Value 50% $

Sup. Building A. V. $

Total $

WIRING Code

	Knobe & Tube
	Flex Cable
	Conduit
X	Power Wiring
	Range Wiring
	No. Outlets

4200
2100
A. 0.66

BASEMENT

	Full %
Dug	Sub-Basement
Part	Size x
	Garage No. Cars
	Floors
	Plastered
	Living Rooms
	Service Rooms

ELEVATORS

	Pass. Freight
	Auto. Elec.
	Man. Hyd.
	Man.

~~Elec~~ Hyd

EXTERIOR WALL CONSTR.

1/2	Single Double
X	2" x 4" Stud Walls
X	2" x 6" Stud Walls
	Brick Walls
	Brick With Pilasters
	Concrete Walls
	Con. With Pilasters
	Tile Walls
	Rein. Con. Skel.
	Filler Walls
	Laminated Walls

INTERIOR WALLS

	Stud and Plaster
	Lam. Plastered
	Ply Wood Fir. Panels
X	Ceiled Bal. Partitions
X	Plaster Board Pl. Bd
X	Painted Egsh Repaired
	Stain Varnish
	Kalsomine
	Whitewashed
	Unfinished

GAS STATIONS

	Frame
	Metal
	Masonry
	Plastered or Ceiled
	Floors

SERVICE BUILDING

	Frame
	Metal
	Masonry
	Plastered or Ceiled
	Floors

TANKS, ETC., LIST

2	550 Gal Tanks
1	Hoists: ~~Elec.~~ X Hyd.

DOCKS AND PIERS

	Treated Piles and Timbers
	Untreated
	Treated Piles only
	Average Length
	Paved

C. H.

S. B.	
B	
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	

GROUND FLOOR AREA

TOTAL FLOOR AREA 5892

EXTERIOR FACING

3/4"	Siding Shingles
	Shakes Stucco
1/2"	~~Brick~~ Veneer Def. for
	Kind
	Stone Cast S.
	Terra Cotta
	Struct. Glass
	Trim

INTERIOR TRIM

X	Fir
	Mah. Oak
	Metal
	Doors
	Windows
	Stained
	Varnished
X	Painted
	Unfinished

FLOOR CONSTRUCTION

Joist Con. Size x

O. C. In Bridg

Mill Construction

Rein. Con.



Other Buildings	Construction	Floor	Roof	Stories	Dimensions	S. F. Area	Factor	Value	% Dep.	Deprec.	Net Value
Garage					x			$		$	$
					x			$		$	$
					x			$		$	$
					x			$		$	$

8510 Dallas Avenue (Former Service Station) - Part 1

0030

218560-0030 21/10 ~~2500~~ ~~1040~~ 3015 21856

LIGHTS	ROAD	SCHOOL	WATER	FIRE	TOTAL ACREAGE			TIMBER	IMPROVED	UNIMPROVED
					SEWER	HSPTL.	AIRPT.	FERRY / LIB		
Co	2	1		11						

YEAR	AC	LAND	BLDGS.	TOTAL	BY	DATE	REASON	FEE OWNER	DATE
1944		650	710	1360	MC	2-3-43		J.R. Johnson	10-4-19
1945		650	1800	2450	DG	6-2-44	Remod.		
1949		780	1800	2580					
1954		1150	1800	2950	B	8-52	Rev.		
1954		1750	1800	3550	LH	6-53	Merge		
1955		1750	2500	4250	JBm	8/14/53	Exchanges per file		
1958		2110	2500	4610	JB	1/14/57	Rev		
1962		2110	2500	4610	LL	5-32-61	Rv		
1967		1950	2500	4450	SLS	9-16-65	Rv		
1967		1950	2100	4050	EL	2/4/66	R.V.	(O.S.# V 1334 - 4/28/67)	
19	71 L	3900 B	4200 T	8100*218560-0030-0	819		Chg Legal - FHLS	5/5/70	A-3955
1973		8450	2750	11200	VH	4-28-72	Rv		
19									
19									
19									
19									
19									
19									

1 DISTRICT 1 — LIMITS CO. — CODE NO. COUNTY — PERMIT NO.

2 ADDITION East South Park REPLAT BLKS 13 & 14 NAME

SECTION TWP. N. RANGE EWM: BLOCK 1 TRACT OR LOT NO. 6

DESCRIPTION

3 ADDRESS --- PROPERTY 8510-Dallas Ave. CONT. PURCHASER

4 FEE OWNER J R Johnson T.D. 4-22-30 10-4-19

5 ARCHITECT CONTRACTOR

ORIG. COST $

6 BUILDING Garage
1 Story
6 Rooms (Rear)

BASEMENT 50%
488 sq.'
Conc. Floor

FOUNDATION
P. & B. Conc. B.
1 Conc. Wall

ROOF
Composition

STORE FRONTS None

EXTERIOR
Frame Single
Rustic
Plain-Cornice
Fir Trim

EXTRA FEATURES None

CONSTRUCTION Frame- Single-Cheap

MISCELLANEOUS

7 CONDITION: EXTERIOR Poor INTERIOR Poor FOUND. Poor

8 MAIN SUPPORT COLUMN 8 x 8 FOOTING Conc. SPAN FT.

9 FIRST FLOOR JOIST 2 X 8 X 12 INCH CENTERS BRIDGED

10 BUILDING Finished

11 GROSS INCOME $ EXPENSE $ NET INCOME $

12 DEPRECIATION: COND. 60 % OBSLSE. % ECON. SUIT. % TOTAL %

YEAR BUILT 1918 REMODELED 1925

EFFECTIVE AGE 18 YEARS FUTURE LIFE 12 YEARS

DIMENSIONS See Remarks x SQUARE FT. AREA CUBIC FT.

4600

INTERIOR

8 Ceiled with
Plaster Brd.
1 Partition--2X4 Rustic

FLOORS Fir

FIRE PLACE None

PLUMBING 4 Fixtures -Cheap
1 Toilet - 1 Basin
1 Sink- 1 H.W. Tank

TILE WORK None

WIRING Open Conduit

HEATING Stove

ELEVATORS

CEILING --- HEIGHT Basement 7'
1st Floor10 to15'



IMPROVEMENT VALUE

BUILDING $

MAIN BUILDING $

OTHER BUILDINGS $

TOTAL $ 1420

ASSESSED VALUE 50% $ 710

DATE 4/24/37

LAND INFORMATION

1. SIZE x Sloping
On grade
2. STREET --- ROAD Graded
Surface- Gravel -No Alley
3. SIDEWALK No -- Sewer -Yes
4. LANDSCAPING None
Condition Poor
5. TREND Static VALUE $
City Water
6. USE Business
View None
7. DISTRICT Poor-Old

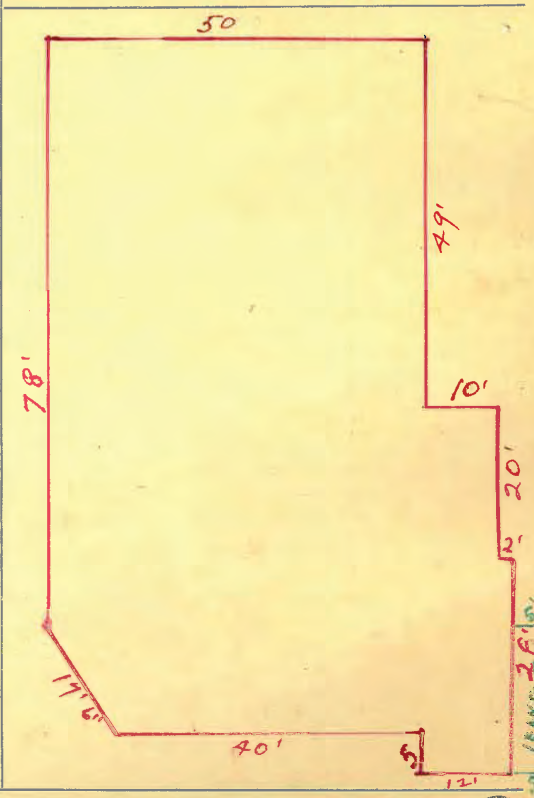
C	OTHER BUILDINGS	CONSTRUCTION	FLOOR	ROOF	STY.	DIMENSION	AREA	VALUE

C	OWNER OR CONTRACT PURCHASER	DATE	FILE NO.	PRICE	MTGE.	STAMP

REMARKS Dimensions--- 50X92 -- 4600
10X48 480
2X28 56
Less -- ½ X10X14 70
5066

Also 1/2 Lot 1 East South Park Replat Blks 13 & 14.

FLOOR PLAN SC 20'-1"



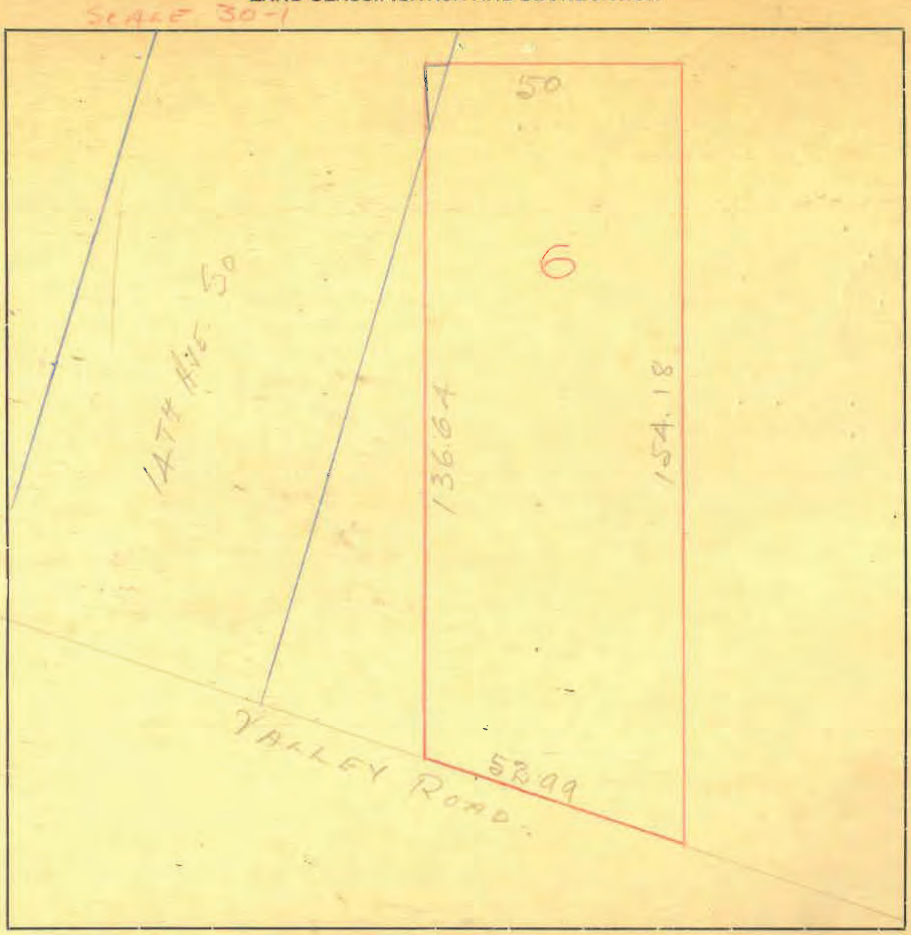
LAND CLASSIFICATION AND SEGREGATION

SECTION N.E. 32
TWP. 24
RANGE 4

SCALE 30-1

AERIAL PHOTO
QUARTER MAP
PLAT MAP #33360

TAX LOT NO.
PARCEL NO.
LOT NO.
BLOCK No.



RECORD OF ASSESSED VALUE								LAND		BUILDING	
YEAR	AC.	LAND	BLDGS.	TOTAL	DATE	BY	REASON	DECREASE	INCREASE	DECREASE	INCREASE
19											
19											
19										

BLDG 1 & 2 5025

FOLIO 3654-B
PERMIT NO. IC 3285
DATE 8/10/73

ADDITION EAST SOUTH PARK REPLAT of B-13-14
Section NE 32 Twp 24 Range 4 EWM. Block 1 Lot or 5-6-7-13-14
Tax Lot Tract FOR REFERENCE ONLY
Address 8510 DALLAS AVE

Fee Owner W.S. CROW Architect Contractor
Zoning Condition of Exterior G Interior G Foundation G Floor Plan: Good Accept. ✓ Poor

USE GARAGE & WHSE

1 No. Stories
No. Stores
No. Rooms
Basement Unit Sq. Ft.
No. Offices
No. Apartmts.
1 rm. ☐ 2 rm. ☐ 3 rm.
4 rm. ☐ 5 rm. ☐ 6 rm.

TYPE OF CONSTRUCTION

Frame
✓ Metal-Prefab
✓ Ordinary Masonry
Mill Construction
Class A Rein. Conc.
Stru. Steel and Conc.
Struct. Steel, Frame
or
QUALITY-TYPE
Good Med. ✓ Cheap

FOUNDATION

✓ Mud Sill ☐ Post Pier
Conc. ☐ Brick
Load Hgt. ☐ Piling

BASEMENT

Full % Part.
Sub-Basement
Size
Garage ☐ No. Cars
Floors
Plastered ☐ Pl. Bd.
No. Apartments
Service Rooms

EXTERIOR WALL CONST.

✓ Single ☐ Double
Stud Walls
Brick Pil. ☐
Conc. Pil. ☐
Rein. Conc. Skeleton
✓ Str. Stl.-Frame
Pre-Fab Metal
Tilt-Up
Filler Wall
Curtain Wall

EXTERIOR FACING

✓ Siding
Stucco Shakes
Marblecrete
Brick ☐ Veneer
Conc. ☑ Conc. Blk.

FLOOR CONSTRUCTION

Joist x x O.C.
Mill Car Deck
✓ R-Conc. Elev.
Steel GLB.
or

ROOF COVERING

Blt.-Up Tar & Gr.
Comp. ✓ Metal
or

ROOF CONSTRUCTION

Frame-Joist
Mill-Deck
Rein. Conc. GLB
✓ Steel Fr. ✓ Metal Deck
Trusses Span
Wood Steel

FLOOR FINISHES

Fir ☐ Maple
Oak ☐ 2x6TG
Lino ☐ 3x6TG
✓ Cement ☐ Lgtwgt. Conc.
Terrazzo
Asphalt Tile ☐ Vinyl Tile
or Carpet

☐ Tile ☐ Lino ☐ Form.
Bath Floor
Bath Walls
Tub Recess
Drain Bds.
Vanities

Date Built 1914 Date Add. Built ✓ Finished ☐ Unfinished ☐ Remodeled
Effective Age Years Future Life Years
Dep. for Cond. Dep for Ob. Dep. for Es. Total

PLUMBING

5 No. Fixtures
✓ 2 Toilets Urinals
Tubs Leg. or Pem.
✓ 2 Basins Dr. Ftns.
Sinks
Washers Dryers
Showers (tub) (stall)
✓ H.W. Tanks Ldy. Trays
D-Washers Disposals
Sprinkler Sys.

HEATING

✓ Elec. Oil Gas
H.W. St. H.A.
✓ B.Bd. Suspended
FHA Pipeless
A. Cond. Wall Unit
Comb. Unit Custom
Refrig. Convector
Heat Pump Fireplace



YEAR	ASSESSED VALUE
	40'x60' Conc. Blk
	Roll
	10 wide Span
	(3) 9'x10' Metal Doors
	$1275/Mo Rent
	Pop Machine
	7 Up Machine
	10'x18' Addition

FACTOR

MISC.
HOIS

INTERIOR WALLS & CEILING

✓ Stud Wood Metal
Plaster Dry Wall
Acc. Tile Celotex
✓ Ceiled Plywood
Solid Block
Sound Proofed Lamin.
Finished Unfinished
Painted Varnished

INSULATION

✓ Exter. Partitions
✓ Roof Floor

INTERIOR TRIM

✓ Fir Birch
Mah. Oak
Metal
Wood ✓ Metal Doors
Wood ✓ Metal Sash
Stained Varnish
Painted Unfin.

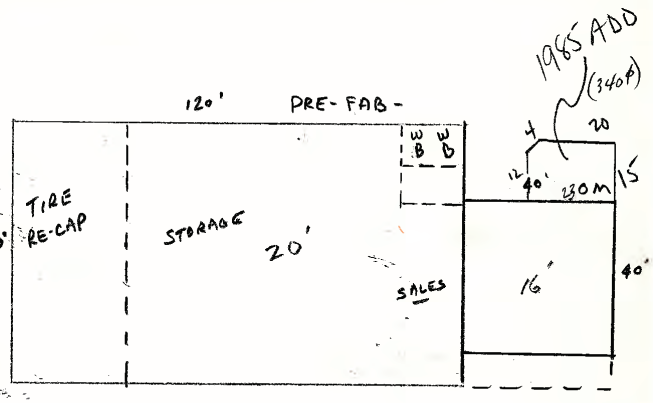
Man. Hydr.
Doors-Auto Mon.
Escalators
Stops Speed
Capy.

Conc. Piles & Bms.
Trtd. Pile Tmbr.
Paved
✓ Dolphins
Deck

Conduit
Pwr. Wiring
Range Wiring
Outlets

C.Hgt. GROUND FLOOR AREA 8400 - 1600 = 10000

SB	TOTAL FLOOR AREA
B	
1	
2	
3	
4	
5	
6	
7	
8	
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22	
23	
24	
25	
26	



20M 11/63

8510 Dallas Avenue
(Former Service Station) - Part 2

BLDG 142 5025

FOLIO 3654-

ADDITION EAST SOUTH PARK REPLAT of B-13-14 5-6-7-13-12

REFERENCE ONLY

PERMIT NO. 1C 328

DATE 8/10/7

Fee Owner W.S. CROW

Zoning _____ Condition of Ex _____ Accept. ✓ Poor _____

USE GARAGE & WHSE

- 1 No. Stories
- No. Stores
- No. Rooms
- Basement — Unit Sq. Ft.
- No. Offices
- No. Apartmts.
- 1 rm. ☐ 2 rm. ☐ 3 rm.
- 4 rm. ☐ 5 rm. ☐ 6 rm.

ROOF CONS

- Frame
- Mill-D
- Rein.
- ✓ Steel
- Truss
- Wood

Date Built 1

Effective Ag

Dep. for Cons.

TYPE OF CONSTRUCTION

- Frame
- ✓ Metal-Prefab
- ✓ Ordinary Masonry
- Mill Construction
- Class A Rein. Conc.
- Stru. Steel and Conc.
- Struct. Steel, Frame

or

QUALITY-TYPE

Good Med. ✓ Cheap

FOUNDATION

- ✓ Mud Sill ☐ Post Pier
- Conc. ☐ Brick
- Load Hgt. ☐ Piling

BASEMENT

- Full ____ % Part.
- Sub-Basement
- Size ____
- Garage ☐ No. Cars
- ____ Floors
- Plastered ☐ Pl. Bd.
- No. Apartments
- Service Rooms

EXTERIOR WALL CONST.

- ✓ Single ☐ Double
- Stud Walls
- Brick ____ Pil. ☐
- Conc. ____ Pil. ☐
- Rein. Conc. Skeleton
- ✓ Str. Stl.-Frame
- Pre-Fab Metal
- Tilt-Up
- ____ Filler Wall
- ____ Curtain Wall

EXTERIOR FACING

- ✓ Siding
- Stucco ____ Shakes
- Marblecrete
- Brick ☐ Veneer
- Conc. ☒ Conc. Blk.

FLOOR CONSTRUCTION

Joist ____ x ____ x ____ O.C.

- Mill ____ Car Deck
- ✓ R.Conc. ____ Elev.
- Steel ____ GLB.

or

ROOF COVERING

- Bit.-Up ____ Tar.&Gr.
- Comp. ____ ✓ Metal

or

FACTOR	ITEM	DIMENSIONS	SQ. FT. AREA	FACTOR	COST
		X			
		X			
		X			
		X			

70 x 120 METAL PREFAB -
40 x 40 CONC BLK.
TENANT INDICATED COST - $100,000 -
NO HEAT - ABOUT 40 LF OF METAL
& GLASS STORE FRONT - EST. MISSING WALL
ON SERVICE GARAGE WOULD COMPENSATE.
4/74 AP

3654-B

DISTRICT F-5333 | ADDITION East So. Parks Replat Blks 13+14 | Section | Twp. | Range | Blk. 1 Lot 5 | Block

4 per Van alley adj

PERMIT No.

218560-0025 1460 1100 ~~1040~~ 3015

DATE 8512 Dallas Ave.

Fee Owner

Condition of Exterior Good + Paint Interior Foundation Good

USE CAFE + Parking

1	No. Stories
	No. Stores
	No. Rooms
	Basement
	No. Offices
	No. Apartments
	1 rm. ☐ 2 rm. ☐ 3 rm.
	4 rm. ☐ 5 rm. ☐ 6 rm.

TYPE OF CONSTRUCTION

X	Frame
X	Single ☐ Double
	Ordinary Masonry
	Mill Construction
	Class A Rein. Con.
	Stru. Steel and Con.
	Tile ☐ Brick
	Con. ☐ Rein. Con.

Good ___ Med. X Cheap X

FOUNDATION

	Mud Sills
X	Post and Pier
	Brick
X	Concrete
	Pile

BASEMENT

	Full ☐ %
	Sub-Basement
	Size x
	Garage ☐ No. Cars
	Floors
	Plastered
	Living Rooms
	Service Rooms

ROOF CONSTRUCTION

X	Frame Lam ☐
	Mill Construction
	Rein. Concrete
	No. Trusses
	Wood ☐ Steel

ROOFING MATERIAL

X	Tar and Gravel
	Or

FLOOR FINISHES

1736	Fir ☐	Maple
1350	Oak ☐	2" x 6" T&G
	Lino. ☐	3" x 6" T&G
	Cement	
	Terrazzo	
	Rascolith	
	Tile	
	Or	

Tile ☐ Lino.

Tile Total: Baths ☐ Fl. ☐ Walls; Sq. Ft. Floors; Sq. Ft. Walls; Lin. Ft. Dr. Bds.

Lino. Total: Sq. Ft. Floors; Sq. Ft. Walls; Lin. Ft. Dr. Bds.

Kit's. ☐ Fl. ☐ Walls

Date Built ☒ Finished ☐ Unfinished Add'l ☒ Remodeled 1940

Effective Age Years Future Life Years

Dep. For Cond. Dep. For Ob. Dep. For Es. Total

75%



Other Buildings $

Total $

Assessed Value 50% $

Sup. Building A. V. $

Total $

ARB

PLUMBING

7	No. Fixtures
3	Toilets
	Tubs, Leg or Pem.
2	Basins, Ped.
1	Sinks C+F+K
	Urinals
	Showers (Tub) (Stall)
	Laundry Trays
X	H. W. Tank Fl. Drains ☐
NW	Sprink. Sys. No. Hds.

HEATING

X	Stove
	Pipeless Furnace
	Gravity H. A.
	Air Cond., Fan
	Arcola
	1-Pipe Steam
	2-Pipe St. or Vapor
	Hot Water
	Oil Burner
	Coal Stoker

WIRING Code

	Knobe & Tube
	Flex Cable
	Conduit
	Power Wiring
	Range Wiring
	No. Outlets

1600 800 4065

ELEVATORS

	Pass. ☐ Freight
	Auto. ☐ Elec.
	Man. ☐ Hyd.
	☐ Man.

1400 1400 1200

EXTERIOR WALL CONSTR.

	Single ☒ Double
X	2" x 4" Stud Walls
	2" x 6" Stud Walls
	Brick Walls
	Brick With Pilasters
	Concrete Walls
	Con. With Pilasters
	Tile Walls
	Rein. Con. Skel.
	Filler Walls
	Laminated Walls

EXTERIOR FACING

X	Siding ☐ Shingles
	Shakes ☐ Stucco
X	Brick Veneer Imitation 90 Panels
	Kind
	Stone ☐ Cast S.
	Terra Cotta
	Struct. Glass
	Trim

FLOOR CONSTRUCTION

Joist Con. Size 2 x 10

O. C. 16" In Bridg. ☐

Mill Construction

Rein. Con.

INTERIOR WALLS

	Stud and Plaster
	Lam. ☐ Plastered
X	Ply Wood
	Ceiled
X	Plaster Board
X	Painted
	Stain ☐ Varnish
	Kalsomine
	Whitewashed
	Unfinished

INTERIOR TRIM

X	Fir
	Mah. ☐ Oak
	Metal
	Doors
	Windows
	Stained
	Varnished
X	Painted
	Unfinished

GAS STATIONS

	Frame
	Metal
	Masonry
	Plastered or Ceiled
	Floors

SERVICE BUILDING

	Frame
	Metal
	Masonry
	Plastered or Ceiled
	Floors

TANKS, ETC., LIST

	Hoists: Elect. Hyd.

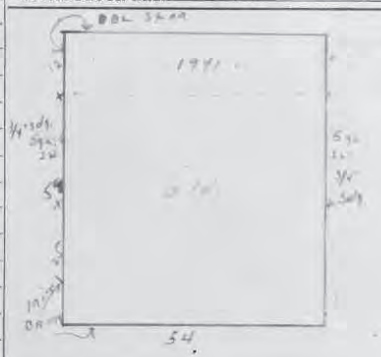
DOCKS AND PIERS

	Treated Piles and Timbers
	Untreated
	Treated Piles only
	Average Length
	Paved

C. H.	
S.B.	
B	
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	

GROUND FLOOR AREA

TOTAL FLOOR AREA 3186



8512 Dallas Avenue (Cafe)

	Other Buildings	Construction	Floor	Roof	Stories	Dimensions	S. F. Area	Factor	Value	% Dep.	Deprec.	Net Value
	Garage					x			$		$	$
						x			$		$	$
						x			$		$	$
						x			$		$	$

0025

21856

LIGHT	ROAD	SCHOOL	WATER	FIRE	TOTAL ACREAGE	TIMBER	IMPROVED	UNIMPROVED
560	2	1		11	SEWER / HSPTL. / AIRPT. / FERRY / LIB / Metro			

YEAR	AC	LAND	BLDGS.	TOTAL	BY	DATE	REASON	FEE OWNER	DATE
1945			6000		DG	6-6-44	Omitted 1940-41-42-43-44 Cancelled Ord #a13		2/20/50
1945		400	1200	1600	DG	6-6-44		F R Johnson	222-30
1949		750	1200	1950			lease Jimmie Wong	8-5-49 #39274 04 Stm $5.00 pd	
1954		1150	1200	2350		8-52	Rev.		
1955		1150	1900	3050	WM.	8/17/55	R.V.		
1956		1150	1100	2250	WM.	3/24/56	Per complaint & file		
1958		1450	1100	2550	JB	1/14/58	Rev.		
1962		1460	1100	2560	LL	5-22-62	Rev		
1967		1630	1100	2730	JB	9-16-66	Rev		
1967		1630	800	2430	EB	3/4/66	R.V.	(Ord #41334)	
1971	L	3260 B	1600 T	4860*218560-0025-0		8/9	chg legal-EXCL-5/5/70	4/28/69	D-3954
1973		7550	2100	9650	VB	4-28-72	Rev		
19									
19									
19									
19									
19									
19									

1. DISTRICT 38 LIMITS CO CODE NO. County

2. ADDITION East South Park Replat of Blk 13 & 14 5

SECTION TWP. N. RANGE EWM. BLOCK 1 TRACT OR LOT NO. 5

DESCRIPTION

3. ADDRESS OF PROPERTY CONTRACT PURCHASER

4. FEE OWNER J R Johnson T.D. 4-22-30

LAND INFORMATION

1. SIZE OF TRACT OR LOT X TOPOGRAPHY Sloping GRADE 1' Below FT. 2. STREET-ROAD Graded SURFACE Gravel

ALLEY No 3. SIDEWALK No SEWAGE Sewer WATER City PUMP DRAINAGE

4. LANDSCAPING None CONDITION Poor 5. TREND Static VALUE OF LOT $ FRONT STREET

FACTOR $ SIDE STREET FACTOR $ DEPTH FACTOR $ CREDIT

6. USE Residential 7. DISTRICT Poor-Old

LAND USE	SOIL TYPE	CROPS-TIMBER STAND	NO. ACRES	VALUE ACRE $	VALUE $
					$
					$
					$
					$

LAND SIZE X TOTAL $

O C	OWNER OR CONTRACT PURCHASER	DATE	FILE NO.	PRICE	MTGE.	STAMP

DISTRICT: ROAD	SCHOOL	WATER	FIRE
2	1		

ASSESSED VALUE LAND

LOT $

UNIMPROVED ACRES $

IMPROVED ACRES $

OTHER LANDS $

TIMBER $

TOTAL ASSESSED VALUE 50% $

DATE

REMARKS

ASSESSED VALUE YEAR	AC.	LAND	DECREASE OR INCREASE IN ASSESSED VALUATION DATE	BY	REASON	LAND DECREASE	LAND INCREASE
1935		90					
1944		400	7/3/43	MC			
19							
19							
19							
19							
19							
19							
19							
19							

VACANT — KING COUNTY ASSESSOR — SEATTLE, WASHINGTON FRAYN PRINTING CO., SEATTLE

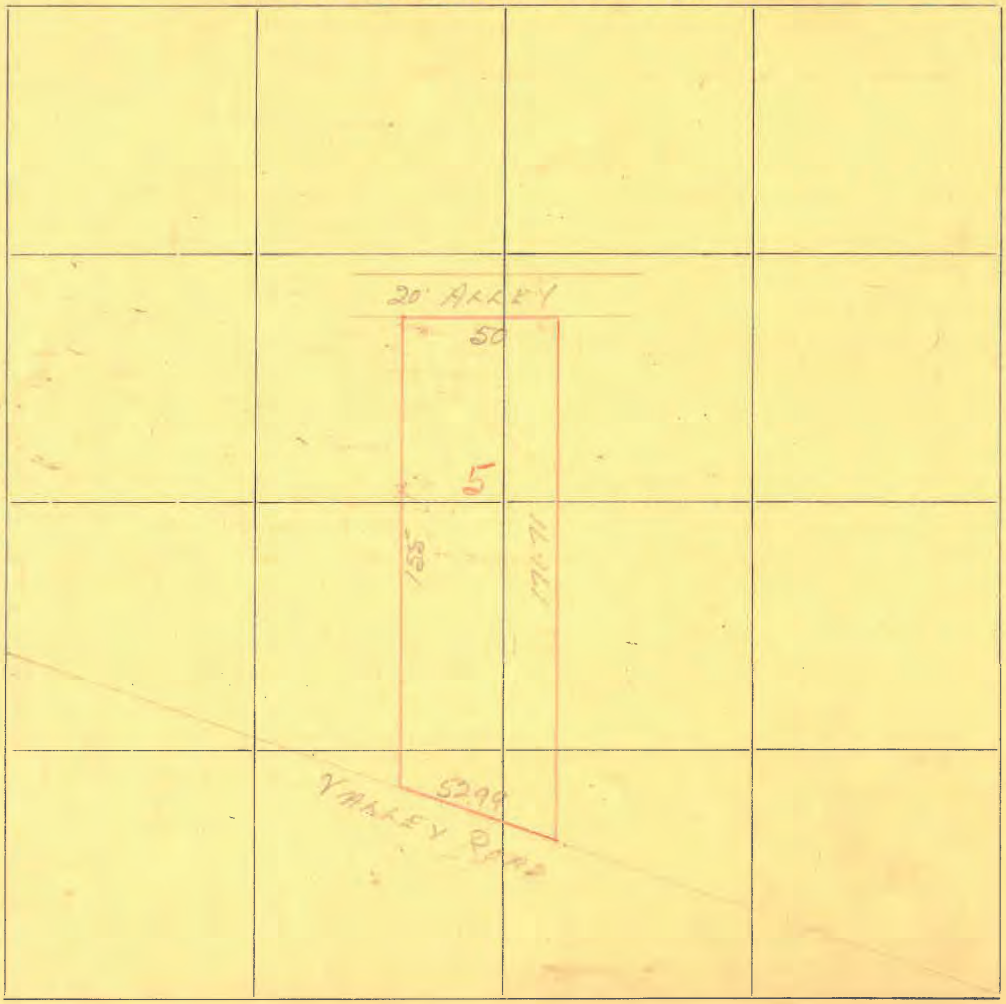
LAND CLASSIFICATION AND SEGREGATION

THIS SQUARE INDICATES 2 R ACRES

INDICATE BY AREAS, USE OF LAND BY MARKS AND TYPE BY LETTERS

SECTION NE 32
TWP. 24 N
RANGE 4 E

TAX LOT NO.
PARCEL NO.



AERIAL PHOTO
QUARTER MAP
PLAT MAP 45333 Co

	LAND USE	ACRES
111	CULTIVATED	
#	PASTURE	
OO	TIMBER	
XX	STUMP	
...	GRAVEL OR USELESS	
V	SWAMP	

	LAND TYPE	ACRES
A	SHOT CLAY	
B	BOG	
C	PEAT	
D	SILT	
E	LOAM	
F	GRAVEL	
G	BOTTOM	
H	UPLANDS	
K	HILLY	

IF USED AS ¼ SECT. SCALE ONE INCH 400 FEET OR 160 ACRES OR 2640 FEET
IF USED AS ¼ OF ¼ " SCALE ONE INCH 200 FEET OR 40 ACRES OR 1320 FEET
IF USED AS ¼-¼-¼ " SCALE ONE INCH 100 FEET OR 10 ACRES OR 660 FEET

3654-B

F-5333

ADDITION East So. Park Replat Blks. 13+14

Section Twp. N. Range Ewn. Block 1 Tract or Lot No.

Permit No. Lot 3

Date

Address of Property 8532 Dallas Ave. (Rear)

Fee Owner

Condition of Exterior good Interior good

1 por. Vac alley adj

USE Service Bldg. for Trailer Camp	BUILDINGS	PLUMBING SH-WW-WB-LV	REFRIGERATION 2 trays	GAS STATION
CONSTRUCTION frame		No. FIXTURES 3 2		CON.
FOUNDATION Conc 6"	FLOORS Cement	GRADE good.	ELEVATORS	FLOORS
BASEMENT No		D. S. SEWER CONN.		SERVICE BLDG.
	INTERIOR WALL FINISH Painted	HEATING 3 Movable Elec. H.W. Radiators	CONVEYORS	CON.
WALLS 2x4-24		WIRING Code		FLOORS
	PORCHES No		EXTRA FEATURES No	TANKS (List)
EXTERIOR Imitation Brick Comp on S/L	YEAR BUILT 1942	FINISHED X UNFINISHED	REMODELED Add 1944	SPRINKLER SYSTEM No
	EFFECTIVE AGE	FUTURE LIFE	DEP. 2024 30%	No. HEADS

FACTOR	ITEM	DIMENSIONS	S F AREA	FACTOR	COST
S.					
B.					



Assessed Value $

DOCKS AND PIERS

Length of Piles

Treated Piles and Timber

Untreated

Treated Piles Only

Paved

DIMENSIONS 21 x 31

SQ. FT. AREA 651

No. Stories 1

No. Stores

No. Rooms 3

CEILING HEIGHTS

S.B.	1	10	3	
B.	2		4	

INTERIOR Veneer Painted

Partitions Veneer on 2x4

ATTIC

ROOF Shingle on S/L on 2x4-16

FIREPLACE

TILEWORK Sq. Ft.

INTERIOR TRIM

3600 1800 0.66 2505 Tnd Jd 47 Tnd 47 th Jd '63

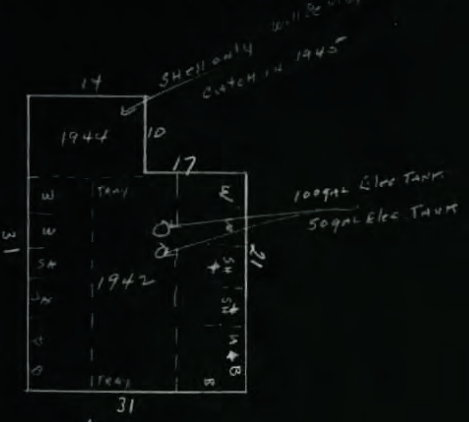
REMARKS

1944 Add Will Contain Plbg could not get details

1947 - 10x14 add. Fin. conc. found. Diag. mat. Plywood Int. walls, Imi. brick ext. Add-6 Toilets Urinal, 2 Shower stalls. Average work.

1953 - 20' water + drain hookups. No toilet usage in Trailers - T+TI 1953

FLOOR PLAN



Appraised by Harland Date 2-21-44 Checked by Date

8532 Dallas Avenue - Part 1

Western Ptg.

218560-0015 ~~1540~~ ~~2550~~ ~~1040~~ 3015

LIGHTS	ROAD	SCHOOL	WATER	FIRE	TOTAL ACREAGE	TIMBER	IMPROVED	UNIMPROVED
Co.	2	1						

YEAR	AG	LAND	BLDGS.	TOTAL	BY	DATE	REASON	FEE OWNER	DATE
19 45			~~800~~		DG	6-44	Omitted 1944 Roll	Cancelled Ord # 213	2/20/50
19 45			~~800~~		DG	6-44			
19									
19									
19									
19									
19									
19									
19									
19									
19									
19									
19									
19									
19									
19									
19									

1. DISTRICT 23 — LOTS CO. — CODE NO. COUNTY — PERMIT NO. — DATE

2. ADDITION East South Park Replat BLKS 13 & 14 — 3

SECTION — TWP. — N. RANGE — EWM. — BLOCK 1 — TRACT OR LOT NO. 3

DESCRIPTION

3. ADDRESS OF PROPERTY 8532-Dallas Ave. — CONTRACT PURCHASER

4. FEE OWNER J P Johnson T.D. — 4-22-30

5. ARCHITECT — CONTRACTOR

6. ORIG. BUILDING COST $ — OCCUPIED BY Tenant — RENTAL PER MONTH $ 10.00 — ESTIMATED RENTAL PER MONTH $ 15.00

7. CONDITION OF EXTERIOR Fair — INTERIOR Fair — FOUNDATION Good — FLOOR PLAN Poor

8. BUILDING: 1 Fmly. Dwel. / 1 Sty. / 4 Rooms / 4 1st Floor / Qrtr Wpb 3

INTERIOR WALLS: 4 Plaster

FLOORS: 4 Fir

FIRE PLACE: None

INTERIOR TRIM: 4 Fir

PLUMBING: 6 Fixtures / 1 Tub-Leg / 1 Toilet / 1 Basin / 1 Sink / 1 H.W. Tank / 1 Ldy. Tray Cheap

TILE WORK: None

ATTIC: None

HEATING: ~~H.A. Furnace~~ Stove '56

BASEMENT: Full Frame & Conc. 2' 5' ½ Conc. Floor

FOUNDATION: Concrete Pchs. P. & B.

ROOF: Shingle Gable

EXTERIOR WALLS: Cedar Siding

PORCHES: 3 1-Story / 2 Roofed / 1 Recessed

EXTRA FEATURES: 1 Flue

BUILT-INS: Usual

CONSTRUCTION (4): Single-Cheap

CEILING HEIGHT: Basement 7' / 1st Floor 9'6"

9. CORNER JOINTS Boxed — DOWN SPOUTS SEWER CONNECTED No

10. FIRST FLOOR JOIST SIZE 2 x 6 AND 20 INCH CENTERS BRIDGED No

11. FIRST FLOOR JOIST SUPPORT COLUMN OR POST SIZE 6 x 8

12. CLASS OR GRADE NO. 1 — SHAPE NO.

13. BUILDING FINISHED OR UNFINISHED Finished

14. DEPRECIATION: CONDITION 60 & 10 % OBSLSE. — % ECON. SUIT. — % TOTAL 59 %

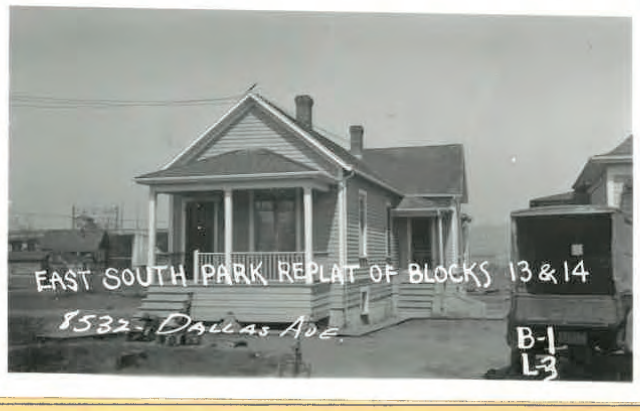
DATE BUILT 1910 — REMODELED None

~~EFFECTIVE~~ AGE 27 49 YEARS — FUTURE LIFE 14 YEARS

LAND INFORMATION

1. SIZE — x — TOPOGRAPHY Sloping — GRADE On grade — FEET
2. STREET ROAD Graded — SURFACE Gravel — ALLEY No
3. SIDEWALK No — SEWERAGE — WELL — ELECT. PUMP
4. LANDSCAPING None — COND. Poor
5. TREND Static — VALUE OF LAND
6. USE OF DISTRICT Residential — VIEW None
7. RESIDENTIAL Poor-Old — ZONED

REMARKS



MAIN BUILDING

DIMENSION	SQ. FT. AREA
16 x 30	
18 x 30	1020
x	
Pch. 6 x 9	Rec.
PCH. 6 x 14	84
PCH. 5 x 6	30

IMPROVEMENT VALUE

MAIN BUILDING $

OTHER BUILDINGS $

TOTAL $ ~~480~~ 800

ASSESSED VALUE 50% $ ~~240~~ 400

DATE 11/23/37 ~~Nov 1963~~

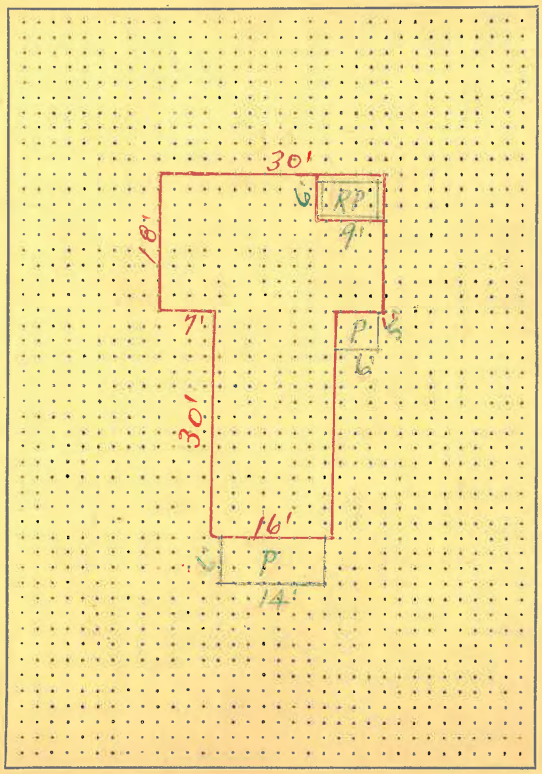
1400

OTHER BUILDINGS	CONSTRUCTION	FLOOR	ROOF	STY.	DIMENSION	AREA	VALUE
GARAGE					x		$
					x		
					x		
					x		
					x		

O C	OWNER OR CONTRACT PURCHASER	DATE	FILE NO.	PRICE	MTGE.	STAMP

REMARKS NO BLDG CARD

FLOOR PLAN SC 20'-1"



FRONT

FRAYN PRINTING CO., SEATTLE

SEWER	HSPTL.	AIRPT.	FERRY	LTS

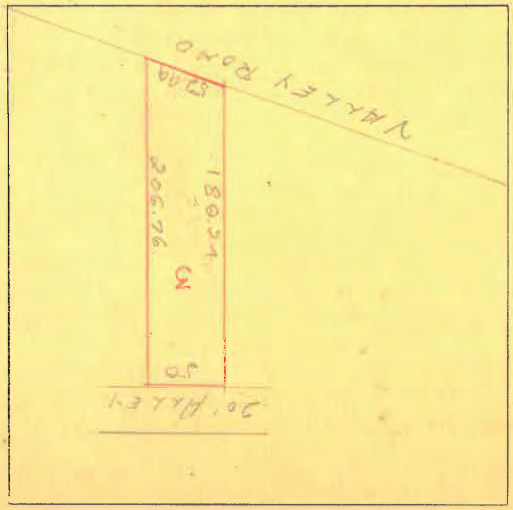
21856

0015

DISTRICT: ROAD	SCHOOL	WATER	FIRE
2	1		11

DECREASE OR INCREASE IN ASSESSED VALUATION

RECORD OF ASSESSED VALUE					DATE	BY	REASON	LAND		BUILDING	
YEAR	AC.	LAND	BLDG'S.	TOTAL				DECREASE	INCREASE	DECREASE	INCREASE
1938		90	240	330							
1944		200	240	440	2/3/43	MC					
1945		200	1040 (2)	1240	6-6-44	DS	Service Bldg added.				
1948		200	1340 (2)	1540	3-47	JH	Imp. completed - plumbing added.				
1949		200	1500 (3)	1700	9-47	MC	R.V.				
1954		860	1500	2360	8-52	[illegible]	Rev.				
1955		860	2900 (2)	3760	8-17-53	ALBM.	See changes in rear Imp.				
1953		860	2250 (2)	3110	3/24/54	ALBM.	Per folio.				
1958		1140	2250 (3)	3390	4/14/59	JG	Rev				
1962		1510	2250	3760	5-22-61	LL	Rv				
1965		1510	2550 (4)	4060	1-16-64	LL	Rv + ab				
1967		1480	2550	4530	4-16-65	BDS	Rev				
1967		1480	2500 (4)	4480	2/4/66	EB	R.V.				
71 L		3960 B	5000 T	8960*218560-C015-0 8/9			(Rdg. legal - FHS - 5/15/70 (Ord # V 1334) 4/28/69) A - 3952				
1973		9100	3500	12600	4-28-72	VS	Rev				
19											
19											
19											
19											
19											
19											
19											
19											
19											
19											
19											
19											



PARCEL NO.

TAX LOT NO.

SECTION NE 32 N

TWP. 24 N

RANGE E

AERIAL PHOTO

QUARTER MAP

PLAT MAP 6333

LAND CLASSIFICATION AND SEGREGATION

SCALE ONE INCH 100 FEET TO 2½ ACRES OR 330 FEET

THIS SQUARE INDICATES 2½ ACRES

Shed yard 5
JRF 2-17-72
MA-1

FOLIO 3654 B
PERMIT NO.
DATE
BLDG.#

REM SEALED 0025 ~~M 0015~~ 1 OF 2
FOR REFERENCE ONLY

ADDITION EAST SOUTH PARK REPLAT BLKS. 13 & 14
Section NE 32 Twp 24 Range 4 EWM. Block 1 Lot or 3 & POR VAC. ALLEY ADJ
Tax Lot Tract

Address 8532 DALLAS AVE. S. COM'L
OR 8522 DALLAS AVE S.
OWNER OCCUPIED

Scale: to 1 Ft.

Fee Owner WILLARD CROW Architect Contractor
Zoning Condition of Exterior Interior Foundation Floor Plan: Good Accept. Poor

USE SERVICE BLDG.

1	No. Stories FOR TRLR CT.
	No. Stores
3	No. Rooms
	Basement Unit Sq. Ft.
	No. Offices
	No. Apartmts.
	1 rm. 2 rm. 3 rm.
	4 rm. 5 rm. 6 rm.

ROOF CONSTRUCTION

X	Frame-Joist
	Mill-Deck
	Rein. Conc. GLB
	Steel Fr. Metal Deck
	Trusses Span
	Wood Steel

FLOOR FINISHES

	Fir	Maple	
	Oak	2x6TG	
	Lino	3x6TG	
100%	Cement	Lgtwgt. Conc.	
	Terrazzo		
	Asphalt Tile	Vinyl Tile	
	or		

Tile Lino Form:

Bath Floor
Bath Walls
Tub Recess
Drain Bds.
Vanities

PLUMBING 20

20	No. Fixtures
4	Toilets 1 Urinals
	Tubs Leg. or Pem.
4	Basins Dr. Ftns.
1	Sinks
	Washers Dryers
4	Showers (tub) (stall) CONN
2	H.W. Tanks 4 Ldy.Trays
	D-Washers Disposals
	Sprinkler Sys.

Date Built 1942 Date Add. Built 1944 Finished Unfinished Remodeled
Effective Age 30 Years Future Life Years
Dep. for Cond. Dep for Ob. Dep. for Es. Total

TYPE OF CONSTRUCTION

/	Frame
	Metal-Prefab
	Ordinary Masonry
	Mill Construction
	Class A Rein. Conc.
	Stru. Steel and Conc.
	Struct. Steel, Frame
	or

QUALITY-TYPE
Good Med. X Cheap

FOUNDATION

	Mud Sill Post Pier
X	Conc. Brick
	Load Bgt. Piling

BASEMENT NONE

	Full % Part.
	Sub-Basement
	Size
	Garage No. Cars
	Floors
	Plastered Pl. Bd.
	No. Apartments
	Service Rooms

EXTERIOR WALL CONST.

	Single Double
100%	Stud Walls
	Brick Pil.
	Conc. Pil.
	Rein. Conc. Skeleton
	Str. Stl.-Frame
	Pre-Fab Metal
	Tilt-Up
	Filler Wall
	Curtain Wall

EXTERIOR FACING

	Siding
	Stucco Shakes
	Marblecrete
	Brick Veneer
	Conc. Conc. Blk.

100% COMP. R.V.

FLOOR CONSTRUCTION

	Joist x x O.C.
	Mill Car Deck
X	R-Conc. Elev.
	Steel GLB.
sf	

ROOF COVERING

	Blt.-Up Tar.&Gr.
X	Comp. Metal
	or



DATE
EFFE
DEP-

TOTAL 3651
OTHER BUILDINGS
TOTAL-VALUE FULL
ASSESSED VAL. 50% 1800

10M 5-65

INTERIOR WALLS & CEILING

X	Stud	Wood Metal
	Plaster	DryWall
	Acc. Tile	Celotex
	Ceiled	X Plywood
	Solid	Block
	Sound Proofed	Lamin.
	Finished	Unfinished
X	Painted	Varnished

INSULATION NONE

	Exter.	Partitions
	Roof	Floor

INTERIOR TRIM

X	Fir	Birch
	Mah.	Oak
	Metal	
X	Wood	Metal Doors
X	Wood	Metal Sash
	Stained	Varnish
X	Painted	Unfin.

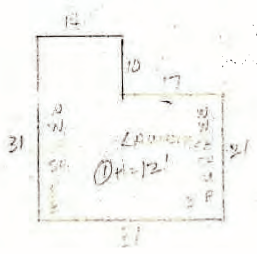
Man. Hydr.
Doors-Auto Man.
Escalators
Stops Speed
Cap'y.

Conc. Piles & Bms
Trtd. Pile Tmbr.
Paved
Dolphins
Deck

Conduit
Pwr. Wiring
Range Wiring
Outlets

	C.Hgt.	
SB		GROUND FLOOR AREA 791
B		TOTAL FLOOR AREA
1	9	
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		

1 CM = 10'



8532 Dallas Avenue - Part 2

10M 11-65

Shed grnd 5
JRP
2-17-12
MH-1

FOLIO 3654 B
PERMIT NO.
DATE
BLDG.#

1926 UNIT B
REM SEALED 0025 ~~M 0015~~
FOR REFERENCE ONLY
1 OF 2

ADDITION EAST SOUTH PARK REPLAT BLKS. 13 & 14
Section NE 32 Twp 24 Range 4 EWM. Block 1 Lot or 3 & POR VAC ALLEY ADJ
Tax Lot Tract

Address 8532 DALLAS AVE. S. COM'L
OR 8522 DALLAS AVE S.
OWNER OCCUPIED

Fee Owner WILLARD C R
Zoning Conditi

LT
2.00
+3 AV for pkg
1850 AV
Less 32% Fac

USE SERVICE BLDG. ROO
1 No. Stories FOR TRLR CT.
No. Stores
3 No. Rooms
Basement Unit Sq. Ft.
No. Offices
No. Apartmts.
1 rm. 2 rm. 3 rm.
4 rm. 5 rm. 6 rm.

TYPE OF CONSTRUCTION
X Frame
Metal-Prefab
Ordinary Masonry
Mill Construction
Class A Rein. Conc.
Stru. Steel and Conc.
Struct. Steel, Frame
or

QUALITY-TYPE
Good Med. X Cheap

FOUNDATION
Mud Sill Post Pier
X Conc. Brick
Load Hgt. Piling

BASEMENT NONE
Full % Part.
Sub-Basement
Size
Garage No. Cars
Floors
Plastered Pl. Bd.
No. Apartments
Service Rooms

EXTERIOR WALL CONST.
Single X Double
30% Stud Walls
Brick Pil.
Conc. Pil.
Rein. Conc. Skeleton
Str. Stl.-Frame
Pre-Fab Metal
Tilt-Up
Filler Wall
Curtain Wall

EXTERIOR FACING
Siding
Stucco Shakes
Marblecrete
Brick Veneer
Conc. Conc. Blk.
100% COMP. B.V.

FLOOR CONSTRUCTION
Joist x x O.C.
Mill Car Deck
X R.Conc. Elev.
Steel GLB.

ROOF COVERING
Blt.-Up Tar & Gr.
X Comp. Metal
or

Date
Effec
Dep.

DATE BUILT ☐ FINISHED ☐ UNFINISHED ☐ REMODELED
EFFECTIVE AGE YEARS FUTURE LIFE YEARS
DEP-COND. DEP-OBS. ECON-DEP. TOTAL 30

ITEMS	+	-	DIMENSIONS	SQFT AREA	FACTOR	COST
	210		21 x 31	651	40	3604
Plbg	200		10 x 14	140	50	70
U	400		x			
			x			
		51	Wash x. mps	@ 50.00		2550
			x			
			x			
			x			
			x			
				TOTAL		5224
				LESS DEPRECIATION		-1567
				TOTAL		3657
				OTHER BUILDINGS		
				TOTAL - VALUE FULL		
				ASSESSED VAL. 50%		1800

10M 5-65

PLUMBING 20
20 No. Fixtures
4 Toilets 1 Urinals
Tubs Leg. or Pem.
4 Basins Dr. Ftns.
1 Sinks
Washers Dryers
4 Showers (tub) (stall) CONC
2 H.W. Tanks 4 Ldy. Trays
D-Washers Disposals
Sprinkler Sys.

HEATING NHEA
Elec. Oil Gas
H.W. St. H.A.
B.Bd. Suspended
FHA Pipeless
A. Cond. Wall Unit
Comb. Unit Custom
Refrig. Convector
Heat Pump Fireplace

YEAR	ASSESSED VALUE

Man. Hydr.
Doors-Auto Man.
Escalators
Stops Speed
Cap'y.
Conc. Piles & Bms
Trtd. Pile Tmbr.
Paved
Dolphins
Deck
Conduit
Pwr. Wiring
Range Wiring
Outlets

INTERIOR WALLS & CEILING
X Stud Wood Metal
Plaster DryWall
Acc. Tile Celotex
Ceiled X Plywood
Solid Block
Sound Proofed Lamin.
Finished Unfinished
X Painted Varnished

INSULATION NONE
Exter. Partitions
Roof Floor

INTERIOR TRIM
X Fir Birch
Mah. Oak
Metal
X Wood Metal Doors
X Wood Metal Sash
Stained Varnish
X Painted Unfin.

SB	C.Hgt.
B	
1	9
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25	
26	

GROUND FLOOR AREA 791
TOTAL FLOOR AREA

1CM = 10'



10M 11-65

Shed yard
JRR
2-11-72
MH-1

FOLIO 3654 B
PERMIT NO.

REM SEALED 0025 ~~M 0015~~ 1 OF 2
FOR REFERENCE ONLY

ADDITION EAST SOUTH PARK REPLAT BLKS. 13 & 14
Section NE 32 Twp 24 Range 4 EWM. Block 1 Lot or 3 & POR VAC ALLEY ADJ

COM'L

Fee Owner WILLARD
Zoning

USE SERVICE BLDG.

1	No. Stories	FOR TRLR CT.
	No. Stores	
3	No. Rooms	
	Basement	Unit Sq. Ft.
	No. Offices	
	No. Apartmts.	
	1 rm. ☐ 2 rm. ☐ 3 rm.	
	4 rm. ☐ 5 rm. ☐ 6 rm.	

TYPE OF CONSTRUCTION

X	Frame
	Metal-Prefab
	Ordinary Masonry
	Mill Construction
	Class A Rein. Conc.
	Stru. Steel and Conc.
	Struct. Steel, Frame

or

QUALITY-TYPE

Good ___ Med. X Cheap

FOUNDATION

	Mud Sill ☐ Post Pier
X	Conc. ☐ Brick
	Load Hgt. ☐ Piling

BASEMENT NONE

	Full % Part.
	Sub-Basement
	Size
	Garage ☐ No. Cars
	Floors
	Plastered ☐ Pl. Bd.
	No. Apartments
	Service Rooms

EXTERIOR WALL CONST.

	Single ☒ Double
100%	Stud Walls
	Brick ___ Pil. ☐
	Conc. ___ Pil. ☐
	Rein. Conc. Skeleton
	Str. Stl.-Frame
	Pre-Fab Metal
	Tilt-Up
	___ Filler Wall
	___ Curtain Wall

EXTERIOR FACING

	Siding
	Stucco ___ Shakes
	Marblecrete
	Brick ☐ Veneer
	Conc. ☐ Conc. Blk.

100% COMP. R.U.

FLOOR CONSTRUCTION

Joist ___ x ___ x ___ O.C.

	Mill ___ Car Deck
V	R.Conc. ___ Elev.
	Steel ___ GLB.

ROOF COVERING

	Blt.-Up Tar & Gr.
X	Comp. ___ Metal

or

FACTOR	ITEM	DIMENSIONS	SQ. FT. AREA	FACTOR	COST
		X			
		X			
		X			
		X			
		TOTAL			
		LESS DEPRECIATION			
		DEPR. FULL VALUE			
		ASSESSED VAL.			

MISC. TANKS, Etc.
HOISTS: Elec. Hydr.
33 HOOK UPS MH-1

ELEVATORS

	Pass. ___ Frght.
	Auto. ___ Elec.
	Man. ___ Hydr.
	Doors-Auto ___ Man.
	Escalators
	Stops ___ Speed
	Cap'y.

DOCKS AND PIERS

	Hvy. ___ Med. ___ Lgt.
	Untrtd. Pile Tmbr.
	Conc. Piles & Bms.
	Trtd. Pile Tmbr.
	Paved
	Dolphins
	Deck

WIRING

	Knob & Tube
	Flex. Cable
X	Conduit
	Pwr. Wiring
	Range Wiring
	Outlets

INTERIOR WALLS & CEILING

X	Stud Wood Metal
	Plaster DryWall
	Acc. Tile Celotex
	Ceiled X Plywood
	Solid Block
	Sound Proofed Lamin.
	Finished Unfinished
X	Painted Varnished

INSULATION NONE

	Exter. ___ Partitions
	Roof ___ Floor

INTERIOR TRIM

X	Fir ___ Birch
	Mah. ___ Oak
	Metal
X	Wood ___ Metal Doors
X	Wood ___ Metal Sash
	Stained ___ Varnish
X	Painted ___ Unfin.

SB	C.Hgt.
B	
1	9
2	
3	
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26	

GROUND FLOOR AREA 791
TOTAL FLOOR AREA

1 CM = 10'



PLUMBING 20

20	No. Fixtures
4	Toilets 1 Urinals
	Tubs Leg. or Pem.
4	Basins ___ Dr. Ftns.
1	Sinks
	Washers ___ Dryers
4	Showers (tub) (stall) CONN
2	H.W. Tanks 4 Ldy. Trays
	D-Washers Disposals
	Sprinkler Sys.

Accept. ___ Poor ___

HEATING NHEA

	Elec. ___ Oil ___ Gas
	H.W. ___ St. ___ H.A.
	B.Bd. ___ Suspended
	FHA ___ Pipeless
	A. Cond. ___ Wall Unit
	Comb. Unit ___ Custom
	Refrig. ___ Convector
	Heat Pump ___ Fireplace

YEAR	ASSESSED VALUE

KING COUNTY
RESIDENTIAL PROPERTY RECORD

0025

BLDG #3

FOR REFERENCE ONLY

099 SHEET 1 OF 2

MAJOR 213560 MINOR 0015 2 FOLIO 3654 B

3 Addition: EAST SOUTH PARK REPLAT BLKS 113 114

4 Quar 1 Sec 32 Twn 24 Rge 04 Block 11 Lot 13

Situs 7 Address: 5 Area 24 Sub Area B 6 Zip 98 168

8532 DALLAS AVE S

8 Description: AND POR. VAC. ALLEY ADJ

9 LAND ONLY | UNDERWATER TIDELANDS

10 REMARKS

Code



Digital Camera

10A PERMIT INFORMATION

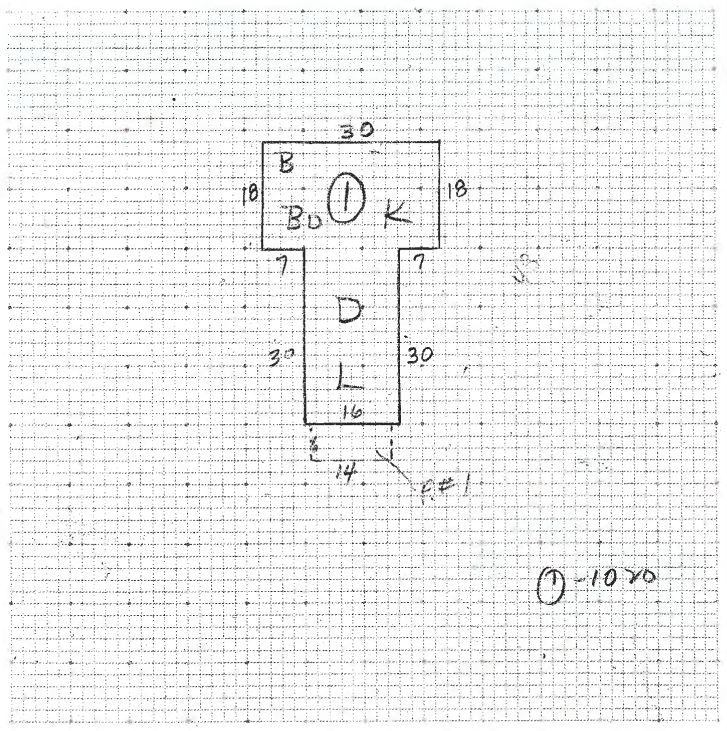
No. _____ Date Issued _____ P.V. _____

Date Const. Started _____ Date Completed _____

Date Occupied _____

Remodeled _____

11 PLAT OF BUILDING Scale 1 CM = 10'



LAND

100	Zone Actual		0						
101	Zone Conformity	X		2Y					
102	Hgt. & Best Use	X		2Y					
103	Unit	1	FF	X	SF	3	AC	4	ST
104	Lot Width							50	
105	Lot Depth							208	
106	Square Foot or Acres				/	0	4	00	
107	Lot Width or Acres (useable)					%	1	00	
108	Lot Depth (useable)					%	1	00	
110	Lot Wd. (standard)							50	
111	Lot Depth (standard)						1	20	
113	Unit Value						1.	75	
114	Representative Site	1SS		2S		3G			
115	Irregular	1N		X					
116	Corner	X		2Y					
117	Grade	1	LW	2	Ev	3	HG		
118	Slope	X	LV	2	S/U	3	S/D	4	BK
119	Street Access	1SS		2S		3G			
120	Water Front	X	N	2	SD	3	LK	4	RV
121	Dock Suitability	1N		2P		3Y			
122	Tide Land	1N		2Y					
123	Alley	1N		2Y					
124	Cul De Sac	1N		2Y					
125	Thru Street	1N		2N					
126	Street Front	1N		2N					
127	Curbs & Gutters	1N		2P		3Y			
128	Sidewalks	1N		2P		3Y			
129	Street Surface	1	C	2	BT	X	0	4	GR
130	Street Condition	1SS		2S		3G			
131	Street Traffic	1H		2N		3L			
132	Street Lights	1N		2SS		3S		4G	
133	Water	X	WD	2	PR	3	B		
134	Water System	X	AD	2	IA				
135	Sanitary Sewers	1N		2Y					
136	Storm Sewers	1N		2Y					
137	Underground Utilities	1N		2P		3Y			

VIEW

140	View Lot	X		2Y				
141	View Olympic Range	1SS		2S		3G		4E
142	View Cascade Range	1SS		2S		3G		4E
143	View Mt. Rainier	1SS		2S		3G		4E
144	View Pug. Sound	1SS		2S		3G		4E
145	View Lake	1SS		2S		3G		4E
146	View River	1SS		2S		3G		4E
147	View City	1SS		2S		3G		4E
148	Territorial View	1SS		2S		3G		4E
149	View Utilization	1SS		2S		3G		4E

NEIGHBORHOOD AND TOTAL PROPERTY

151	Predominate Use	X		2M		3O		
152	Arch. Attractiveness	1SS		X		3G		
153	Landscaping	1SS		X		3G		
154	Unit Balance	1SS		X		3G		
155	Esmts. & Restrs.	1SS		X		3G		
156	External Nuisances	1SS		X		3G		
157	Conf. Gen. Neigh.	1SS		X		3G		
158	Conf. Immed. Neigh.	1SS		X		3G		
159	Prox. to Trans.	1SS		2S		X		
160	Prox. to Soc. Service	1SS		2S		X		
161	Prox. to Public Service	1SS		2S		X		
162	Trend	1SS		X		3G		
163	Planning	1SS		X		3G		
164	Market Demand	1SS		X		3G		
165	Land Use Code							
166	Base Lot Value			$				
167	Permanent Rev. Needed							
168	Obsolescence							

STAFF

170	Land Data Date	04	02	/	73	
171	Appraiser No.		51	1	16	2
172	Reviewer No.					

ASSESSORS FORM #84
REV 6-1-71
CH 3/27/72/L
AR 3/27L

BUILDING DATA

MAJOR 218560 MINOR 0015 FOLIO 3654B

12 EXTERIOR
- [ ] Bd. & Btn. [ ] Shingle
- [ ] Rustic [ ] Shake
- [X] Ced./Sid. [ ] Conc. Blk.
- [ ] Plywood
- [ ] Brick Veneer %
- [ ] Stone %
- Other

13 ROOF
- [ ] Hip [X] Comp.
- [X] Gable [ ] Tile/Slate
- [ ] Shed [ ] Tar/Gravel
- [ ] Flat [ ] Shingle
- [X] Gutters [ ] Drain
- [ ] Shake [ ] Lgt. [ ] Hvy
- Other

14 WINDOWS
- [X] Wood [ ] Steel
- [ ] Alum. [Ø] Sl/Gl/Dr
- Other

15 FOUNDATION
- [X] Concrete 6 Thick
- [ ] Concrete Block
- [ ] Post & Pier
- Other

16 FLOOR CONST.
- Flr. Joists 2 X 6
- Bridged 20 O.C.
- Post & Beam 6 X 8
- Stud Bearing X
- [ ] Concrete Slab
- [ ] Hidden

17 ELECTRIC
- Int. Fix. [ ] SS [X] S [ ] G
- Ext. Fix. [ ] SS [X] S [ ] G
- Other

18 CONST CLASS
- [X] Single [X] Sub. Std.
- [ ] Double [ ] Std.
- [ ] Solid [ ] Good
- [ ] Pre. Fab. [ ] Special

19 ROOM DETAIL

	No.	B	1	A	½	2
Entry						
Dining			1			
Fa/De/R						
Bedroom			1			
Bath			1			
Living			1			
Kitchen			1			
Utility						
Grade			S			

No. 4
- Unf. ½ Floor Area Sq. Ft.
- Unf. Full Floor Area Sq. Ft.

20 BUILT-INS NO. Ø
- [ ] B.BQ. [ ] Disp.
- [ ] D.W. [ ] Intercom
- [ ] Fan. & Hd. [ ] App. Is.
- [ ] Vacuum [ ] Stereo
- [ ] Rng. & Ov. [ ] Bi [ ] Di
- [ ] Dbl. Oven [ ] Bi [ ] Di
- Other

21 ATTIC
- [X] None
- [ ] Unfinished
- Finished Area
- Grade [ ] SS [ ] S [ ] G
- Strwy. 1 [ ] N 2 [ ] Y 3 [ ] F
- Other

22 BASEMENT
- [ ] None [ ] Part [X] Full
- Finished Rms. No.
- Finished Area NONE
- Grade [ ] SS [ ] S [ ] G
- [ ] Daylite Bsmt.
- Garage X
- Other

23 HEATING
- [X] Oil [ ] Gas [ ] Elec.
- [ ] F/wf [ ] Grav. [ ] Rdnt.
- [ ] BB [ ] F.A. [ ] HW
- [ ] Conversion
- [ ] Adeq. [X] Inadeq.
- Other STOVE

24 INSULATION UNK
- [ ] Walls [ ] Ceiling
- Other

25 KITCHEN
- Eat. Area [X] Adeq. [ ] Inad.
- Cabinets [X] Adeq. [ ] Inad.
- Cab. Matl. [ ] SS [ ] S [ ] G
- Cdr. Matl. [ ] SS [X] S [ ] G
- Remodeled [X] No [ ] Yes

26 FLOORS
- [ ] HW [ ] Conc. [ ] Tile
- [4] SW [ ] WWC [ ] Lino.
- Other

27 PLUMBING
- [1] Tub [1] Basin
- [1] Toilet [ ] Shower St.
- Baths Full [1] [¾] [ ] [½]
- Grade [X] SS [ ] S [ ] G
- [1] Sink [1] HW Tank
- [1] Laundry Conn.
- [ ] Other Sgl. Outlets
- [ ] Roughed in Baths
- Other

28 FIREPLACE NO. Ø
- [ ] Bsmt. [ ] 1st. [ ] 2nd.
- [ ] Sgl. [ ] Mult. [ ] Fr.Std.
- [ ] Brick [ ] Stone
- Grade [ ] SS [ ] S [ ] G
- Other

29 PORCH

No. 1	[X] OP	[ ] Enc.	[1] St.
No. 2	[ ] OP	[ ] Enc.	[ ] St.
No. 3	[ ] OP	[ ] Enc.	[ ] St.

- Other

30 DECK NONE

No. 1	[ ] Conc.	[ ] Wd	[ ] Cvd.
No. 2	[ ] Conc.	[ ] Wd	[ ] Cvd.
No. 3	[ ] Conc.	[ ] Wd	[ ] Cvd.

- Other

30A SOURCE OF DATA
- Owner
- Tenant
- N.H. 10:00 2-8-72
- N.H. Card 2-7-72 1:20
- Card Returned

Code 31 **REMARKS**

50 MISCELLANEOUS IMPROVEMENTS

Year	Items	Const	Gr	Floor	Roof	Dimensions	Area	$ F.V.
1910	OPEN	FR		W/O	COMP	6 X 14		

51 PRINCIPAL BUILDING

Fl	Dimensions	Area	Fl	Dimensions	Area	Fl	Dimensions	Area
	x			x			x	
	x			x			x	
	x			x			x	
	x			x			x	

BUILDING DATA

200	[ ] Condo [ ] Co-op	Poss. Int. Units				1
201	Use Type		1[X]		2M	3O
202	Year Built 19 [1] [Ø]	Cost Year 19				
203	Depreciation Table					
204	Functional		1SS		2S	3G
205	Condition		1SS		2S	3G
206	Workmanship		1SS		2S	3G
207	No. of Stories					
208	Total Rooms					
209	Entry					
210	Dining					
211	Fam/Den/Rec.					
212	Bedrooms					
214	Utility Type Rooms					
215	No. of Built-Ins					
216	Adeq. Electric		1SS		2S	3G
217	Adeq. Plumbing		1SS		2S	3G
218	Adeq. Garage		1SS		2S	3G
219	Adeq. Storage		1SS		2S	3G
220	Bsmt. Garage	Area				
221	Unfin. Attic	Area				

BUILDING COST DATA

229	Per Cent Complete					
230	Eff. Yr. 19 [1] [Ø]	Obsol %		Net Cond %		
231	Grade R 1 04	Variation				
232	1st. Floor	Area				
233	Upper Floors	Area				
234	Half Story	Area				
235	Unf. Floors	Area				
236	Fin. Attic Grade	Area				
237	Strwy. to Unf. Attic	1N		2Y		3F
238	Total Bsmt.	Area				
239	Fin. Bsmt. Grade	Area				
240	Daylite Bsmt.	1N		2Y		
241	Ext. Brick %		Ext. Stone %			
242	Heating Source	1 Oil	2	G	3	El.
243	Heating System	1 F/W	2	Gr	3	Rd.
		4 EBB	5	Fa	6	Hw
244	Heating	Area				
245	Central Cooling Costs	$				
246	Bathrooms Full	[3/4]		[1/2]		
247	H.W. Tank/Sink/Laundry					
248	Other Single Plumbing Outlets					
249	Fireplaces Single		Multi.-fl.		Free-Std	
250	Fireplace Add Outlets					
252	Porch 1 DK 2 OP 3 En	Area				
253	Porch 1 DK 2 OP 3 En	Area				
254	Porch 1 DK 2 OP 3 En	Area				
255	Additional Costs	$				
256	Garage Att.	Area				

ACCESSORY IMPROVEMENTS

258	Gar. Det. Grade	Area				
259	Eff. Year 19	Net Cond. %				
260	Carport	Area				
~~262~~	No. of Parking Stalls					
266	Pool Grade	Area				
267	Pool Eff. Yr. 19	Net Cond. %				
268	1 Poured 2 Gunite 3 Fib. gl. 4 Plastic					
269	Concrete	Area				
270	Asphalt	Area				
271	Other Misc. Imps. Value	$				
272	Permanent Review Needed					4

STAFF

282	Building Data Date					
283	Appraiser No.					
284	Reviewer No.					
~~285~~	Date / / Sale					

DISTRICT 3687 / 6607-E — ADDITION JOHN Buckley DC # 42x45 — Section 12 Twp. Range Ewm. (1) Block Tract or Lot

PERMIT No.

DATE

FOR REFERENCE ONLY

8544½ Dallas Ave.

Tax Lot 1

N 82.5' ly E of East South Park Add & S'ly of Duwamish N.W.

Fee Owner

Condition of Exterior Poor Interior Poor Foundation

USE BOAT SHED

- 1 No. Stories
- 1 No. Stores
- No. Rooms
- Basement
- 1 No. Offices
- 1 No. Apartments
- 1 rm. 1 2 rm. 3 rm.
- 4 rm. 5 rm. 6 rm.

TYPE OF CONSTRUCTION

- Frame
- Single Double
- Ordinary Masonry
- Mill Construction
- Class A Rein. Con.
- Stru. Steel and Con.
- Tile Brick
- Con. Rein. Con.

Good Med. Cheap

FOUNDATION

- Mud Sills
- Post and Pier
- Brick
- Concrete PIERS
- Pile 7' OC.

BASEMENT

- Full %
- Sub-Basement
- Size x
- Garage No. Cars
- Floors
- Plastered
- Living Rooms
- Service Rooms

ROOF CONSTRUCTION

- Frame Lam
- Mill Construction
- Rein. Concrete
- 7 No. Trusses LIGHT FRAME
- Wood Steel

ROOFING MATERIAL

- Tar and Gravel

Or.

FLOOR FINISHES

- Fir
- Maple
- Oak
- 2" x 6" T&G
- Lino.
- 3" x 6" T&G
- Cement
- Terrazzo
- Raecolith
- Tile

Or.

No Tile No Lino.

Tile Total: Baths Fl. Walls; Sq. Ft. Floors; Sq. Ft. Walls; Lin. Ft. Dr. Bds.

Lino. Total: Sq. Ft. Floors; Sq. Ft. Walls; Lin. Ft. Dr. Bds.

Kit's. Fl. Walls

Date Built 1939 Finished Unfinished Remodeled

Effective Age 30 32 Years Future Life Years

Dep. For Cond. 20 Dep. For Ob. Dep. For Es. Total 50%

REPRODUCTION COST Factor Make Up

Factor	Plus or Minus	Dimensions	S. F. Area	Factor	Cost
		42 x 55	2310	1.50	3465
		Pch.			
		Pch.			

Total 3465

Less Depreciation 1386

Total 2079

Other Buildings 200

Total Value (Full) 2279

Assessed Valuation 50%

Main Building

Other Buildings

Total

Assessed Value 50%

Sup. Building A. V.

Total

OMIT All Years

TENANT PAYS 23 PER MO.

PLUMBING

- 5 No. Fixtures
- 2 Toilets
- Tubs, Leg or Pem.
- Basins, Ped.
- 1 Sinks
- Urinals
- 1 Showers (Pub.) (Stall)
- Laundry Trays
- 1 H. W. Tank Fl. Drains
- Sprink. Sys. No. Hds.

HEATING NO HEAT

- Stove
- Pipeless Furnace
- Gravity H. A.
- Air Cond., Fan
- Arcola
- 1-Pipe Steam
- 2-Pipe St. or Vapor
- Hot Water
- Oil Burner
- Coal Stoker

WIRING

- Knobe & Tube
- Flex Cable
- Conduit
- Power Wiring
- Range Wiring
- No. Outlets

ELEVATORS

- Pass. Freight
- Auto. Elec.
- Man. Hyd.
- Man.

250 + 40

EXTERIOR WALL CONSTR.

- Single Double
- 2" x 4" Stud Walls
- KDW 2" x 6" Stud Walls 24"
- Brick Walls
- Brick With Pilasters
- Concrete Walls
- Con. With Pilasters
- Tile Walls
- Rein. Con. Skel.
- Filler Walls
- Laminated Walls

EXTERIOR FACING

- KEN Siding Shingles
- Shakes Stucco
- Brick Veneer
- 12 1/2 FR CONC Kind
- Stone Cast S.
- Terra Cotta
- Struct. Glass
- Trim

FLOOR CONSTRUCTION

Joist Con. Size NO. 2 x 10

O. C. 16 In Bridg

- Mill Construction
- Rein. Con. 16 - PR

INTERIOR WALLS

- Stud and Plaster
- Lam. Plastered
- Ply Wood
- Ceiled OPEN
- Plaster Board STUD
- Painted
- Stain Varnish
- Kalsomine
- Whitewashed
- Unfinished

INTERIOR TRIM

- X Fir OFFICE APT
- Mah. Oak
- Metal
- Doors
- Windows
- Stained
- Varnished
- Painted
- X Unfinished

GAS STATIONS

- Frame
- Metal
- Masonry
- Plastered or Ceiled
- Floors

SERVICE BUILDING

- Frame
- Metal
- Masonry
- Plastered or Ceiled
- Floors

TANKS, ETC., LIST

C-4 CANOPY 5'X20' X 10 FT METAL AWNING TENANT

MEZZ 2SZ UP UNF SW - NO HEAT

Hoists: Elect. Hyd.

DOCKS AND PIERS

- Treated Piles and Timbers
- Untreated
- Treated Piles only
- Average Length
- Paved

C. H.

S.B. B 1 18 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22

GROUND FLOOR AREA

TOTAL FLOOR AREA 2310

2-16x16 FR. DOCK ON TRUCK

42

55

1 RM HSE

STORES

2 STY PORT. 2 ROOM HSE 12 X 21

OFF.

UP

2 STY PORTION IS MACHINE & CHICKEN BROODER

8544 Dallas Avenue

Other Buildings	Construction	Floor	Roof	Stories	Dimensions	S. F. Area	Factor	Value	% Dep.	Deprec.	Net Value
Garage	FRAME	CONC			x	540		$		$	$
	CORR. STEEL				x			$		$	$
					x			$		$	$
					x			$		$	$

LAND INFORMATION

1 Size of Lot or Tract____ x ____ Steep ____ Sloping ____ Level ____ Above or Below Grade ____ Ft.

2 Street or Road Graded ____ Paved, Hard Surface or Gravel ____ Alley ____ Paved ____

Sidewalk ____ Sewer ____ Cesspool ____ Septic Tank ____ Well ____ Electric Pump ____

4 Landscaping ____ Condition ____

5 Trend of District __ Static __ Up __ Down __ Value of Lot or Tract $ ____ Front Street Factor $ ____ Side Street Factor $ ____

Depth Factor $ ____ Credit ____

6 Use of District Residential ____ Apartment ____ Business ____ Industrial ____ Water Front ____ View ____

7 Residential District Best ____ Good ____ Medium ____ Poor ____ Old ____ New ____ Zoned for ____

STORE BUILDING'S ORIGINAL COST ____

SALE PRICE $ ____

STORE SIZES ____

No.	x	Rent per Mo.								
	x									
	x									
	x									
	x									
	x									
	x									
	x									
	x									
	x									

Potential Gross Income ____

Actual Gross Income ____

Rentals Include: Heat ____ Light ____

Number Stores With Plumbing ____

Number Stores Without Plumbing ____

REMARKS: ____

1956 Add Small Quonset Type Building used for Airplane Storage

HOTELS AND APARTMENT'S ORIGINAL COST — UNFURNISHED

	Per Month	Total
No. Single Rooms ____ at		
No. 2 Room Apartments ____ at		
No. 3 Room Apartments ____ at		
No. 4 Room Apartments ____ at		
No. 5 Room Apartments ____ at		
No. 6 Room Apartments ____ at		
Garage, Number of Cars ____ at		
Potential Gross Income		
Actual Gross Income		

Rentals Include: Heat ____ Light ____

Phone Service ____ Janitor Service ____

Number Apartments Furnished ____

Number Apartments Unfurnished ____

Number Rooms or Apartments With Baths ____

Number Bath Rooms ____ Number Public Bath Rooms ____

REMARKS: ____

CHECKER'S REMARKS: Has 75' Ways. Light Rails on 6 x 12 (2)

Did not take Picture as Trains & 2 would be in Background.

Office Pile Arms Barracks Converted to Cafe. Chairs not secured would have open stools. Occupied but locked

Burned 9/9/67

Appraised by Garrudd 2/21/68 Checked by ____ Date ____

REPRODUCTION COST (Revised)

Factor Make Up

Factor	Plus or Minus	Dimensions	S. F. Area	Factor	Cost	Cost	Cost	Cost	Cost
$		x		$	$				
		x			$				
		x			$				
		x			$				
		Pch. x			$				
		Pch. x			$				
		Total			$				
		Less Depreciation			$				
		Total			$				
		Other Buildings			$				
		Total Value (Full)			$				
		Assessed Valuation 50%			$				

DAW 1-72 appears to be used for storage locked up.

TRICK & MURRAY, SEATTLE, 11294

MAJOR _____ MINOR _____ SPLIT _____ FOLIO _____ SUBLETTER _____ SUBNUMBER _____

ASSESSOR'S FORM 210 - B



MAJOR _____ MINOR _____ SPLIT _____ FOLIO _____ SUBLETTER _____ SUBNUMBER _____ ASSESSOR'S FORM 210 - B

8 C

Gar 1.50 402

+ 200 AV on Cabin

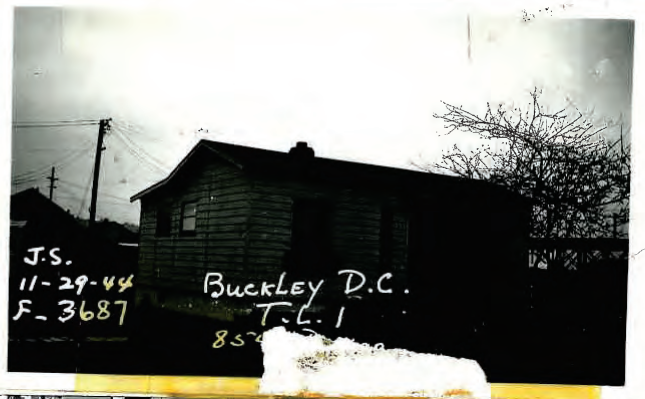


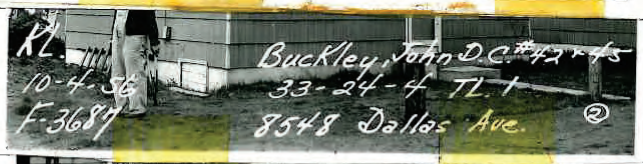
8 [illegible]

ave 1.50 40'0

one Cabin

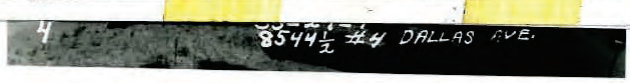
6 9

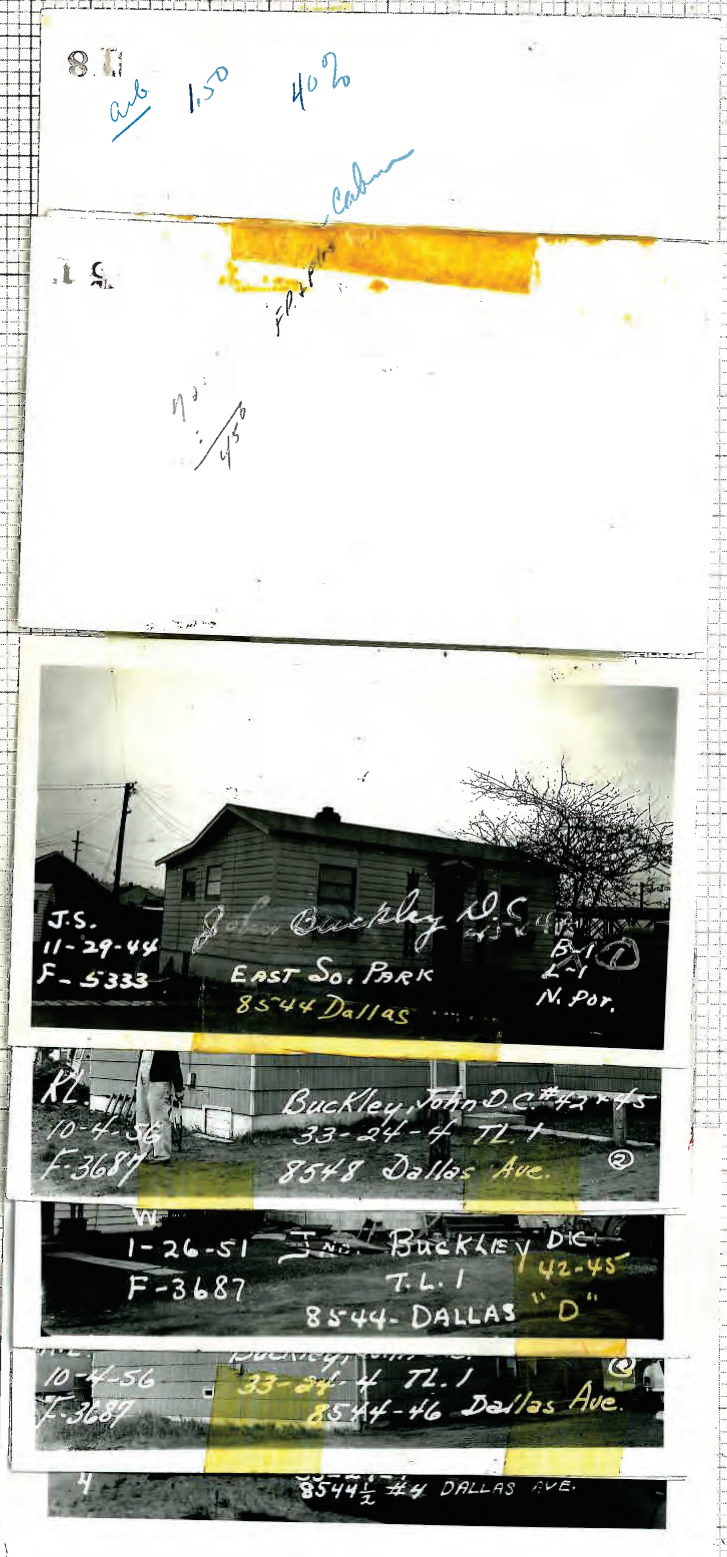










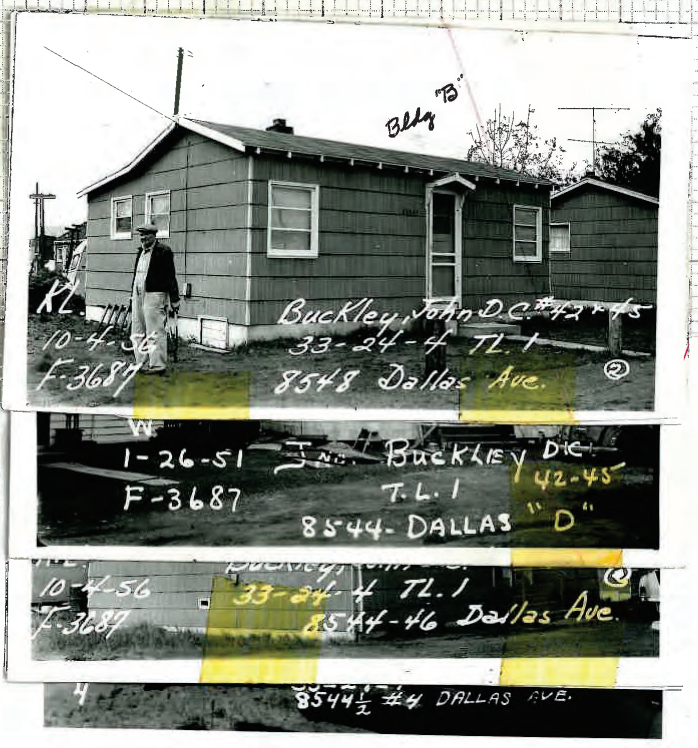

J.S.
11-29-44
F-5333
Buckley D.C.
EAST So. PARK
8544 Dallas
B-1
L-1
N. Por.
K.L.
10-4-56
F-3687
Buckley, John D.C. #42-45
33-24-4 TL 1
8548 Dallas Ave.
2
1-26-51
F-3687
Buckley D.C. 42-45
T.L. 1
8544 DALLAS "D"
10-4-56
F-3687
33-24-4 TL. 1
8544-46 Dallas Ave.
2
4
8544½ #4 DALLAS AVE.

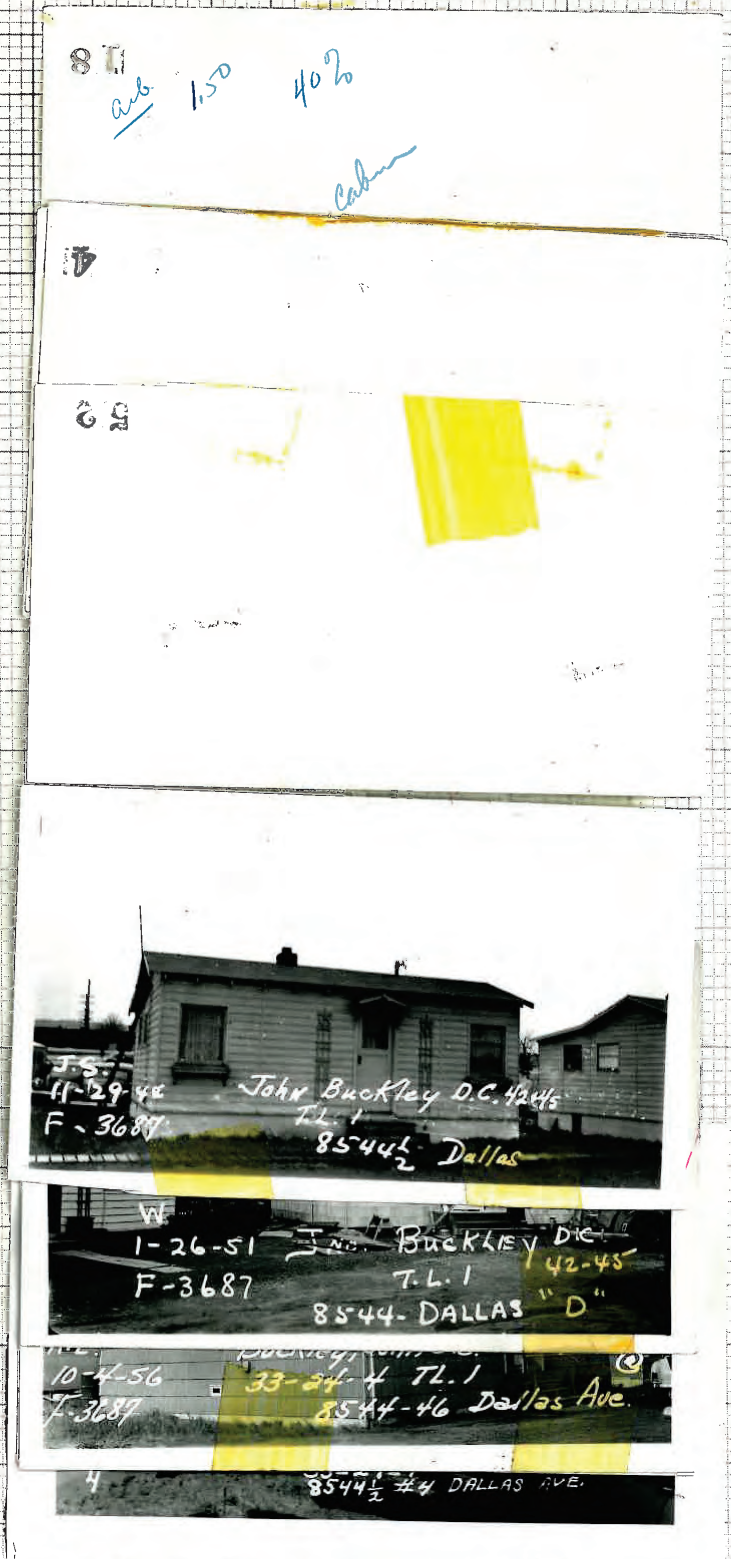
8 [illegible]

ave 1.50 40'0

Calhoun

[illegible]




F-S
11-29-48
F-3687
John Buckley D.C. 42-45
T.L. 1
8544½ Dallas
W
1-26-51
F-3687
Jno. Buckley D.C. 42-45
T.L. 1
8544 DALLAS "D"
10-4-56
F-3687
33-24-4 TL. 1
8544-46 Dallas Ave.
4
8544½ #4 DALLAS AVE.

MAJOR _____ MINOR _____ SPLIT _____ FOLIO _____ SUBLETTER _____ SUBNUMBER _____ ASSESSOR'S FORM 210 - B

8 T

cub 1.50 40%

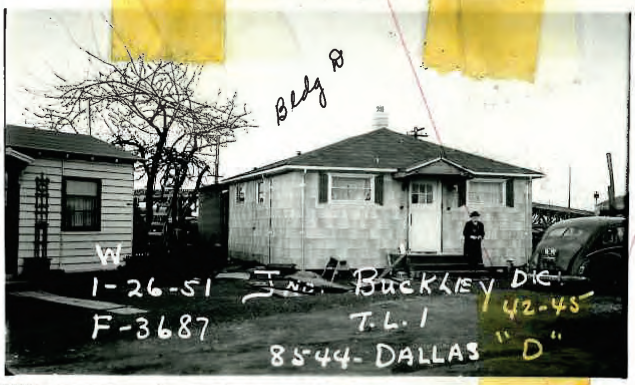
Calhoun

4

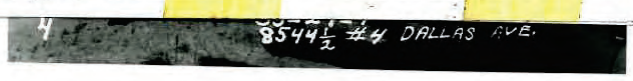
11 T

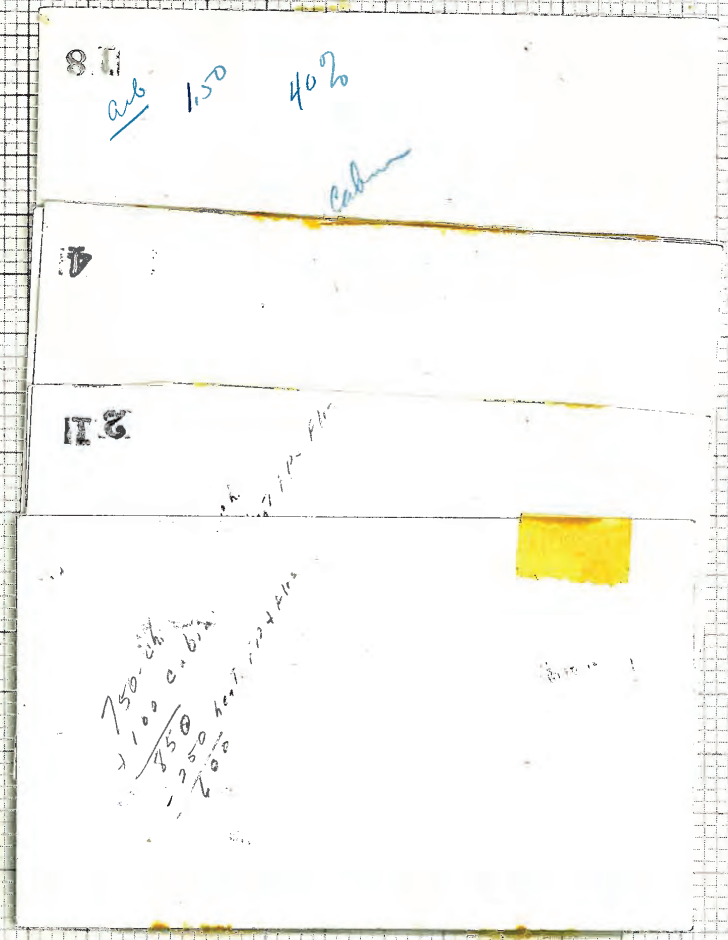
10 cu. hen. pr. plr

2.5%/45



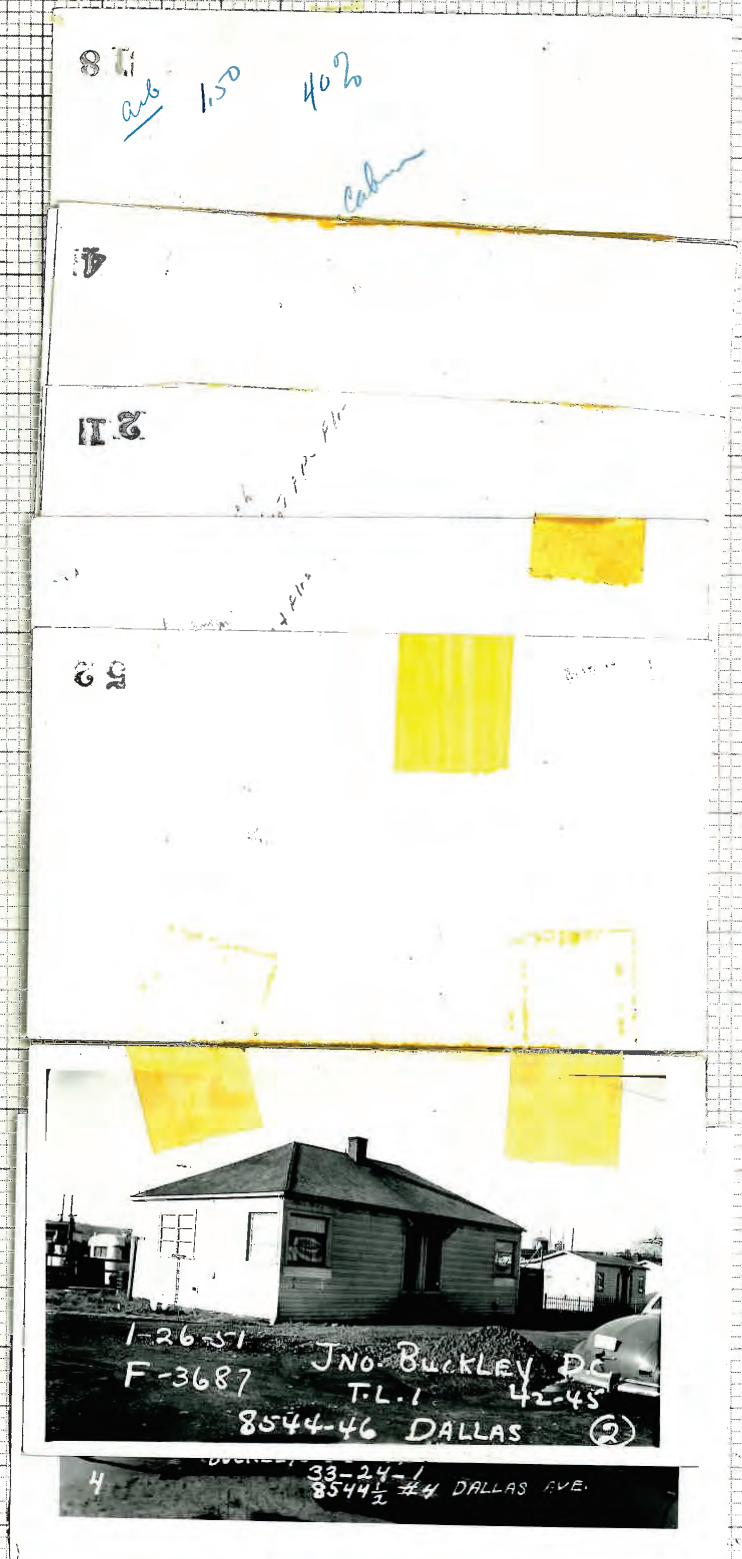





8 T
1,50
40%
750 cu. ft.
100 c. ft.
7.50
7500
750
7.50


Bldg E
Buckley, John D.C. #42-45
10-4-56
33-24-4 TL. 1
8544-46 Dallas Ave.
8544½ #4 DALLAS AVE.

MAJOR _____ MINOR _____ SPLIT _____ FOLIO _____ SUBLETTER _____ SUBNUMBER _____ ASSESSOR'S FORM 210 - B



MAJOR _____ MINOR _____ SPLIT _____ FOLIO _____ SUBLETTER _____ SUBNUMBER _____ ASSESSOR'S FORM 210 - B

8 T

ab 1.50 40'

Cabana

4

11 S

Pipe Flr

Flrs

19

std 1600
fp. 100
bsmt. 1250
alley 200
bmis +100
1550



KING COUNTY
RESIDENTIAL PROPERTY RECORD

3687.C

MERGED TO 000160-0001 COM'L

099 SHEET 1 OF 1

MAJOR 218560 MINOR 0010 2 FOLIO 3654 B

3 Addition: EAST SOUTH PARK REPLAT BLKS 13 14

4 Quar 1 Sec 32 Twn 24 Rge 04 Block 001 Lot 002

Situs 7 Address: 8533 DALLAS AVE S

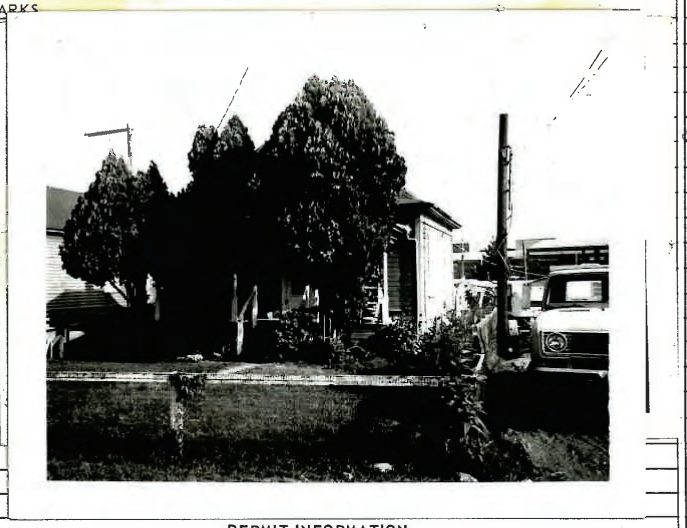
5 Area 024 Sub Area 003 6 Zip 98 168

8 Description: AND POR VAC ALLEY ADJ

9 LAND ONLY | UNDERWATER TIDELANDS

10 REMARKS

Code



10A PERMIT INFORMATION

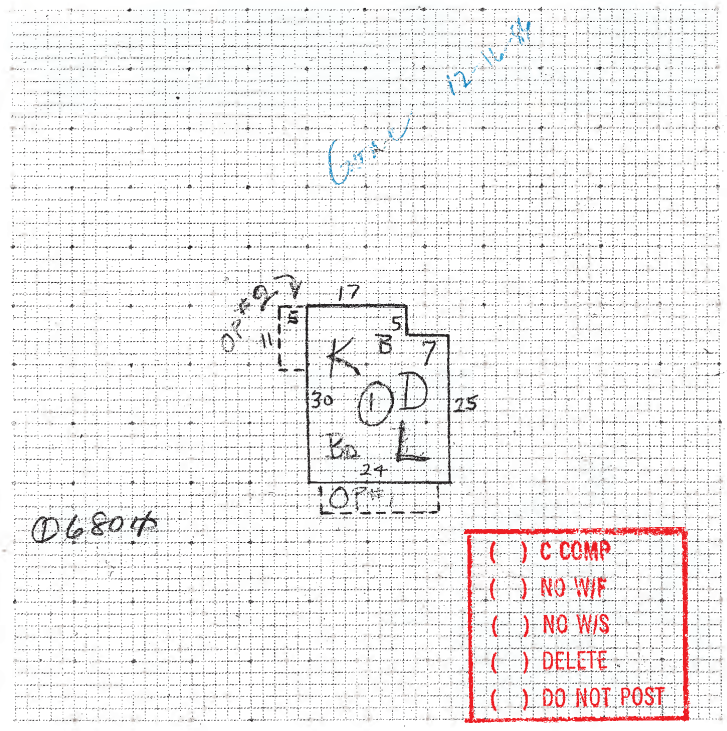
No. _____ Date Issued _____ P.V. _____

Date Const. Started _____ Date Completed _____

Date Occupied _____

Remodeled _____

11 PLAT OF BUILDING Scale 1 CM = 10'



D6804

( ) C COMP
( ) NO W/F
( ) NO W/S
( ) DELETE
( ) DO NOT POST

LAND

100	Zone Actual		7						
101	Zone Conformity	1X		2Y					
102	Hgt. & Best Use	X		2Y					
103	Unit	1	FF	2	SF	3	AC	X	ST
104	Lot Width							50	
105	Lot Depth							226	
106	Square Foot or Acres								
107	Lot Width or Acres (useable)					%	100		
108	Lot Depth (useable)					%	100		
110	Lot Wd. (standard)							50	
111	Lot Depth (standard)							100	
113	Unit Value				20	000			
114	Representative Site	1SS		X		3G			
115	Irregular	1N		X					
116	Corner	X		2Y					
117	Grade	1	LW	X	Ev	3	HG		
118	Slope	X	LV	2	S/U	3	S/D	4	BK
119	Street Access	1SS		X		3G			
120	Water Front	X	N	2	SD	3	LK	4	RV
121	Dock Suitability	1N		2P		3Y			
122	Tide Land	X		2Y					
123	Alley	X		2Y					
124	Cul De Sac	X		2Y					
125	Thru Street	1N		X					
126	Street Front	1N		X					
127	Curbs & Gutters	1N		2P		3Y			
128	Sidewalks	X		2P		3Y			
129	Street Surface	1	C	2	BT	X	0	4	GR
130	Street Condition	1SS		X		3G			
131	Street Traffic	X		2N		3L			
132	Street Lights	1N		2SS		3S		X	
133	Water	X	WD	2	PR	3	B		
134	Water System	X	AD	2	IA				
135	Sanitary Sewers	X		2Y					
136	Storm Sewers	X		2Y					
137	Underground Utilities	X		2P		3Y			

VIEW

140	View Lot	X		2Y					
141	View Olympic Range	1SS		2S		3G		4E	
142	View Cascade Range	1SS		2S		3G		4E	
143	View Mt. Rainier	1SS		2S		3G		4E	
144	View Pug. Sound	1SS		2S		3G		4E	
145	View Lake	1SS		2S		3G		4E	
146	View River	1SS		2S		3G		4E	
147	View City	1SS		2S		3G		4E	
148	Territorial View	1SS		2S		3G		4E	
149	View Utilization	1SS		2S		3G		4E	

NEIGHBORHOOD AND TOTAL PROPERTY

151	Predominate Use	1S		2M		3O			
152	Arch. Attractiveness	1SS		2S		3G			
153	Landscaping	1SS		2S		3G			
154	Unit Balance	1SS		2S		3G			
155	Esmts. & Restrs.	1SS		2S		3G			
156	External Nuisances	1SS		2S		3G			
157	Conf. Gen. Neigh.	1SS		2S		3G			
158	Conf. Immed. Neigh.	1SS		2S		3G			
159	Prox. to Trans.	1SS		2S		3G			
160	Prox. to Soc. Service	1SS		2S		3G			
161	Prox. to Public Service	1SS		2S		3G			
162	Trend	1SS		2S		3G			
163	Planning	1SS		2S		3G			
164	Market Demand	1SS		2S		3G			
165	Land Use Code								
166	Base Lot Value			$					
167	Permanent Rev. Needed								9
168	Obsolescence								##

STAFF

170	Land Data Date	4	02	/	12	
171	Appraiser No.		51		163	
172	Reviewer No.					

ASSESSORS FORM #84
REV 6-1-71
CH 3/27/72/L
AR 3/29/L

MERGED TO 000160-0001 COM'L

099 SHEET 1 OF 1

MAJOR

3 Additio

EAS

4 Qua

Situs
7 Addres

85

8 Descri

AND

9 LAND

10 REMARKS

Code

218560 - 0010
& 3654-B
9-17-84
EHE1

F. 3654 B.



10A PERMIT INFORMATION

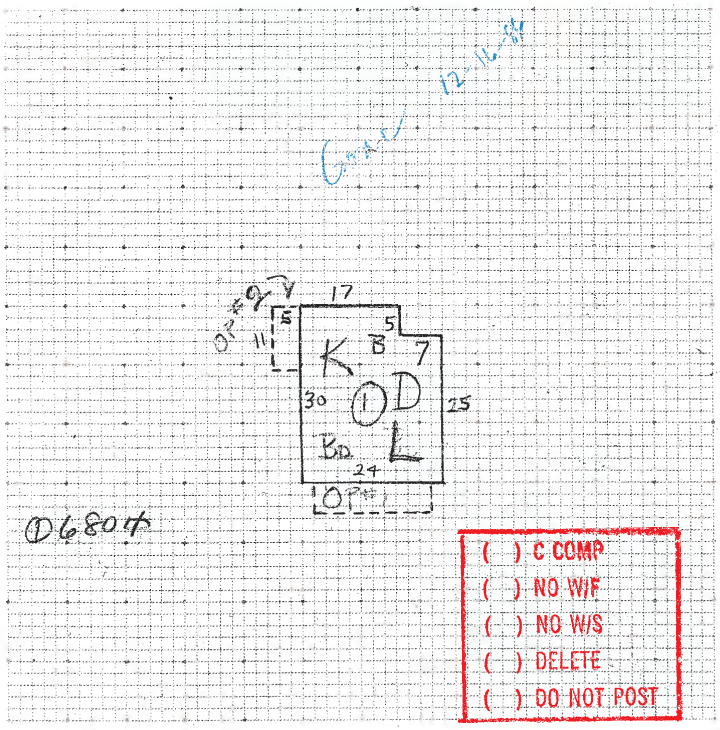
No. _____ Date Issued _____ P.V. _____

Date Const. Started _____ Date Completed _____

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Remodeled _____

11 PLAT OF BUILDING Scale 1 CM = 10'



D6804

( ) C COMP
( ) NO W/F
( ) NO W/S
( ) DELETE
( ) DO NOT POST

LAND

100	Zone Actual		7							
101	Zone Conformity	1 X		2 Y						
102	Hgt. & Best Use	X		2 Y						
103	Unit	1	FF	2	SF	3	AC	X	ST	
104	Lot Width								50	
105	Lot Depth								226	
106	Square Foot or Acres									
107	Lot Width or Acres (useable)						%	100		
108	Lot Depth (useable)						%	100		
110	Lot Wd. (standard)								50	
111	Lot Depth (standard)							100		
113	Unit Value				20	000				
114	Representative Site	1 SS		X		3 G				
115	Irregular	1 N		X						
116	Corner	X		2 Y						
117	Grade	1	LW	X	Ev	3	HG			
118	Slope	X	LV	2	S/U	3	S/D	4	BK	
119	Street Access	1 SS		X		3 G				
120	Water Front	X	N	2	SD	3	LK	4	RV	
121	Dock Suitability	1 N		2 P		3 Y				
122	Tide Land	X		2 Y						
123	Alley	X		2 Y						
124	Cul De Sac	X		2 Y						
125	Thru Street	1 N		X						
126	Street Front	1 N		X						
127	Curbs & Gutters	1 N		2 P		3 Y				
128	Sidewalks	X		2 P		3 Y				
129	Street Surface	1	C	2	BT	X	0	4	GR	
130	Street Condition	1 SS		X		3 G				
131	Street Traffic	X		2 N		3 L				
132	Street Lights	1 N		2 SS		3 S		X		
133	Water	X	WD	2	PR	3	B			
134	Water System	X	AD	2	IA					
135	Sanitary Sewers	X		2 Y						
136	Storm Sewers	X		2 Y						
137	Underground Utilities	X		2 P		3 Y				

VIEW

140	View Lot	X		2 Y				
141	View Olympic Range	1 SS		2 S		3 G	4 E	
142	View Cascade Range	1 SS		2 S		3 G	4 E	
143	View Mt. Rainier	1 SS		2 S		3 G	4 E	
144	View Pug. Sound	1 SS		2 S		3 G	4 E	
145	View Lake	1 SS		2 S		3 G	4 E	
146	View River	1 SS		2 S		3 G	4 E	
147	View City	1 SS		2 S		3 G	4 E	
148	Territorial View	1 SS		2 S		3 G	4 E	
149	View Utilization	1 SS		2 S		3 G	4 E	

NEIGHBORHOOD AND TOTAL PROPERTY

151	Predominate Use	1 S		2 M		3 O		
152	Arch. Attractiveness	1 SS		2 S		3 G		
153	Landscaping	1 SS		2 S		3 G		
154	Unit Balance	1 SS		2 S		3 G		
155	Esmts. & Restrs.	1 SS		2 S		3 G		
156	External Nuisances	1 SS		2 S		3 G		
157	Conf. Gen. Neigh.	1 SS		2 S		3 G		
158	Conf. Immed. Neigh.	1 SS		2 S		3 G		
159	Prox. to Trans.	1 SS		2 S		3 G		
160	Prox. to Soc. Service	1 SS		2 S		3 G		
161	Prox. to Public Service	1 SS		2 S		3 G		
162	Trend	1 SS		2 S		3 G		
163	Planning	1 SS		2 S		3 G		
164	Market Demand	1 SS		2 S		3 G		
165	Land Use Code							
166	Base Lot Value			$				
167	Permanent Rev. Needed							9
168	Obsolescence							##

STAFF

170	Land Data Date	4	0	2	1	2
171	Appraiser No.		5	1	6	2
172	Reviewer No.					

ASSESSORS FORM #84
REV 6-1-71
CH 3/27/72 L
AR 3/29 L

BUILDING DATA

MAJOR 218560 MINOR 0010 FOLIO 36543

12 EXTERIOR
- [ ] Bd. & Btn. [ ] Shingle
- [X] Rustic [ ] Shake
- [ ] Ced./Sid. [ ] Conc. Blk.
- [ ] Plywood
- [ ] Brick Veneer %
- [ ] Stone %
- Other

13 ROOF
- [X] Hip [X] Comp.
- [ ] Gable [ ] Tile/Slate
- [ ] Shed [ ] Tar/Gravel
- [ ] Flat [ ] Shingle
- [X] Gutters [X] Drain
- [ ] Shake [ ] Lgt. [ ] Hvy
- Other

14 WINDOWS
- [X] Wood [ ] Steel
- [ ] Alum. [Ø] Sl/Gl/Dr
- Other

15 FOUNDATION
- [X] Concrete Thick
- [ ] Concrete Block
- [ ] Post & Pier
- Other

16 FLOOR CONST.
- Flr. Joists 2 X 6
- [X] Bridged 24 O.C.
- Post & Beam 6 X 6
- Stud Bearing X
- [ ] Concrete Slab
- [ ] Hidden

17 ELECTRIC
- Int. Fix. [ ] SS [X] S [ ] G
- Ext. Fix. [ ] SS [X] S [ ] G
- Other

18 CONST CLASS
- [X] Single [ ] Sub. Std.
- [ ] Double [X] Std.
- [ ] Solid [ ] Good
- [ ] Pre. Fab. [ ] Special

19 ROOM DETAIL

	No.	B	1	A	½	2
Entry						
Dining			1			
Fa/De/R						
Bedroom			1	1		
Bath			1			
Living			1			
Kitchen			1			
Utility						
Grade		S				

- Unf. ½ Floor Area Sq. Ft.
- Unf. Full Floor Area Sq. Ft.

20 BUILT-INS NO.
- [ ] B.BQ. [ ] Disp.
- [ ] D.W. [ ] Intercom
- [ ] Fan. & Hd. [ ] App. Is.
- [ ] Vacuum [ ] Stereo
- [ ] Rng. & Ov. [ ] Bi [ ] Di
- [ ] Dbl. Oven [ ] Bi [ ] Di
- Other

21 ATTIC 30%
- [ ] None
- [ ] Unfinished
- Finished Area 30%
- Grade [ ] SS [X] S [ ] G
- Strwy. 1 N [X] Y [ ] F
- Other

22 BASEMENT
- [X] None [ ] Part [ ] Full
- Finished Rms. No.
- Finished Area
- Grade [ ] SS [ ] S [ ] G
- [ ] Daylite Bsmt.
- Garage X
- Other

23 HEATING
- [X] Oil [ ] Gas [ ] Elec.
- [ ] F/wf [ ] Grav. [ ] Rdnt.
- [ ] BB [ ] F.A. [ ] HW
- [ ] Conversion
- [ ] Adeq. [X] Inadeq.
- Other Stove

24 INSULATION UNK
- [ ] Walls [ ] Ceiling
- Other

25 KITCHEN
- Eat. Area [X] Adeq. [ ] Inad.
- Cabinets [X] Adeq. [ ] Inad.
- Cab. Matl. [ ] SS [X] S [ ] G
- Cdr. Matl. [ ] SS [X] S [ ] G
- Remodeled [X] No [ ] Yes

26 FLOORS
- [ ] HW [ ] Conc. [ ] Tile
- [5] SW [ ] WWC [ ] Lino.
- Other

27 PLUMBING
- Baths Full [1] [ ] ¾ [ ] ½
- Grade [X] SS [ ] S [ ] G
- [1] Sink [1] HW Tank
- [ ] Laundry Conn.
- [ ] Other Sgl. Outlets
- [ ] Roughed in Baths
- Other

28 FIREPLACE NO. Ø
- [ ] Bsmt. [ ] 1st. [ ] 2nd.
- [ ] Sgl. [ ] Mult. [ ] Fr.Std.
- [ ] Brick [ ] Stone
- Grade [ ] SS [ ] S [ ] G
- Other

29 PORCH

No. 1	[X] OP	[ ] Enc.	[1] St.		
No. 2	[X] OP	[ ] Enc.	[1] St.		
No. 3	[ ] OP	[ ] Enc.	[ ] St.		

- Other

30 DECK NONE

No. 1	[ ] Conc.	[ ] Wd	[ ] Cvd.	
No. 2	[ ] Conc.	[ ] Wd	[ ] Cvd.	
No. 3	[ ] Conc.	[ ] Wd	[ ] Cvd.	

- Other

30A SOURCE OF DATA
- Owner
- Tenant 9145 2-4-72
- N.H. 9
- N.H. Card
- Card Returned

BUILDING DATA

200	[ ] Condo	[ ] Co-op	Poss. Int. Units						1
201	Use Type				1R	[X]	2M		3O
202	Year Built 19	1	Ø	Cost Year 19	7	2			
~~203~~	Depreciation Table								
204	Functional				1SS	[X]			3G
205	Condition				1SS	[X]			3G
206	Workmanship				1SS	[X]			3G
207	No. of Stories								1
208	Total Rooms								5
209	Entry								Ø
210	Dining								1
211	Fam/Den/Rec.								Ø
212	Bedrooms								2
214	Utility Type Rooms								Ø
215	No. of Built-Ins								Ø
216	Adeq. Electric				1SS	[X]			3G
217	Adeq. Plumbing				1SS	[X]			3G
218	Adeq. Garage				[X]	2S			3G
219	Adeq. Storage				1SS	[X]			3G
~~220~~	Bsmt. Garage			Area					
~~221~~	Unfin. Attic			Area					

BUILDING COST DATA

~~229~~	Per Cent Complete								
230	Eff. Yr. 19	1	Ø	Obsol %	1	5	Net Cond %		
231	Grade	R	1	Ø	¼		Variation		
232	1st. Floor			Area			6	8	Ø
~~233~~	Upper Floors			Area					
~~234~~	Half Story			Area					
~~235~~	Unf. Floors			Area					
236	Fin. Attic Grade		4	Area			2	Ø	Ø
~~237~~	Strwy. to Unf. Attic			1N		2Y		3F	
~~238~~	Total Bsmt.			Area					
~~239~~	Fin. Bsmt. Grade			Area					
~~240~~	Daylite Bsmt.			1N		2Y			
~~241~~	Ext. Brick %				Ext. Stone %				
~~242~~	Heating Source	1	Oil	2	G	3	El.		
~~243~~	Heating System	1	F/W	2	Gr	3	Rd.		
		4	EBB	5	Fa	6	Hw.		
~~244~~	Heating			Area					
~~245~~	Central Cooling Costs			$					
246	Bathrooms Full		1	¾	Ø	½	Ø		
247	H.W. Tank/Sink/Laundry								Ø
248	Other Single Plumbing Outlets								2
~~249~~	Fireplaces Single			Multi.-fl.		Free-Std			
~~250~~	Fireplace Add Outlets								
252	Porch 1 DK [X] OP 3 En	Area				1	Ø	Ø	
253	Porch 1 DK [X] OP 3 En	Area					5	Ø	
~~254~~	Porch 1 DK 2 OP 3 En	Area							
~~255~~	Additional Costs	$							
~~256~~	Garage Att.	Area							

ACCESSORY IMPROVEMENTS

~~258~~	Gar. Det. Grade			Area			
~~259~~	Eff. Year 19			Net Cond. %			
~~260~~	Carport			Area			
~~262~~	No. of Parking Stalls						
~~266~~	Pool Grade			Area			
~~267~~	Pool Eff. Yr. 19			Net Cond. %			
~~268~~	1 Poured 2 Gunite 3 Fib. gl. 4 Plastic						
~~269~~	Concrete	Area					
~~270~~	Asphalt	Area					
~~271~~	Other Misc. Imps. Value	$					
272	Permanent Review Needed						

31 REMARKS

Code	
21	30% UNFIN
	1-23-78

50 MISCELLANEOUS IMPROVEMENTS

Year	Items	Const	Gr	Floor	Roof	Dimensions	Area	$ F.V.
1910	OPEN	FR		WD	COMP	5 x 20	100	
						5 x 11	55	

51 PRINCIPAL BUILDING

Fl	Dimensions	Area	Fl	Dimensions	Area	Fl	Dimensions	Area
1	17 x 30	510		x			x	
1	7 x 25	175		x			x	
	x			x			x	
	x			x			x	

STAFF

282	Building Data Date			/				
283	Appraiser No.							
284	Reviewer No.							
~~285~~	Date / /	Sale						

MN 3-13-72

DISTRICT 3287

ADDITION J. Buckley, D.C. 42-45 (44) Legal on back (2)

Section NW 33 Twp. 24 Range 4 Ewm. Block

PERMIT No. Sewer for reg. Pro of (2) (44)

DATE

8604 DALLAS AVE

Fee Owner A.B. BARREL CO.

Condition of Exterior 9 Interior 9 Foundation 9

USE OIL BARREL

1 No. Stories Reclaim
1 No. Stores
No. Rooms
Basement
No. Offices
No. Apartments
1 rm. 2 rm. 3 rm.
4 rm. 5 rm. 6 rm.

ROOF CONSTRUCTION

X Frame Lam
Mill Construction
Rein. Concrete
10 No. Trusses 2x4 4'0c
X Wood Steel

ROOFING MATERIAL

Tar and Gravel
Or X CORR. ALUMINUM

FLOOR FINISHES

X Fir Maple
Oak 2" x 6" T&G
Lino. 3" x 6" T&G
Cement
Terrazzo PLANK
Racolith 3x12
Tile used
Or

Tile Total
Lino. Total

Baths Fl. Walls
Sq. Ft. Floors
Sq. Ft. Walls
Lin. Ft. Dr. Bds.
Sq. Ft. Floors
Sq. Ft. Walls
Lin. Ft. Dr. Bds.
Kit's. Fl. Walls

No. Fixtures
Ab Toilets
Tubs, Leg or Pem.
Basins, Ped.
Sinks
Urinals
Showers (Tub) (Stall)
Laundry Trays
H. W. Tank Fl. Drains
Sprink. Sys. No. Hds.

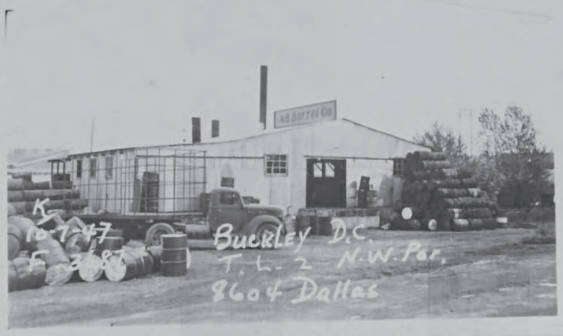
TYPE OF CONSTRUCTION

X Frame
X Single Double
Ordinary Masonry
Mill Construction
Class A Rein. Con.
Stru. Steel and Con.
Tile Brick
Con. Rein. Con.
Good Med. Cheap X

Date Built 1946 Finished Unfinished Remodeled
Effective Age Years Future Life Years
Dep. For Cond. 20 Dep. For Ob. Dep. For Es. Total 20

REPRODUCTION COST Factor Make Up OPEN July 15th 1946

Factor Plus or Minus



Assessed Value 50% $
Sup. Building A.V. ¢
Total $

HEATING

Stove
Pipeless Furnace
Gravity H. A.
Air Cond., Fan
Arcola Removed
1-Pipe Steam Range
2-Pipe St. or Vapor
Hot Water
Oil Burner
Coal Stoker

WIRING

Knobe & Tube
Flex Cable
X Conduit
X Power Wiring
Range Wiring
No. Outlets

ELEVATORS

Pass. Freight
Auto. Elec.
Man. Hyd.
Man.

FOUNDATION

Mud Sills
X Post and Pier
Brick all used
Concrete
Pile

BASEMENT

Full %
N Sub-Basement
Size x
0 Garage No. Cars
Floors
Plastered
Living Rooms
Service Rooms

EXTERIOR WALL CONSTR.

Single Double
X 4" x 4" Stud Walls 5'0c
2" x 6" Stud Walls
Brick Walls
Brick With Pilasters
Concrete Walls
Con. With Pilasters
Tile Walls
Rein. Con. Skel.
Filler Walls
Laminated Walls

INTERIOR WALLS

Stud and Plaster
Lam. Plastered
Ply Wood
Ceiled
Plaster Board
Painted
Stain Varnish
Kalsomine
Whitewashed
X Unfinished

GAS STATIONS

Frame
Metal
Masonry
Plastered or Ceiled
Floors

SERVICE BUILDING

Frame
Metal
Masonry
Plastered or Ceiled
Floors

TANKS, ETC., LIST

Hoists: Elect. Hyd.

DOCKS AND PIERS

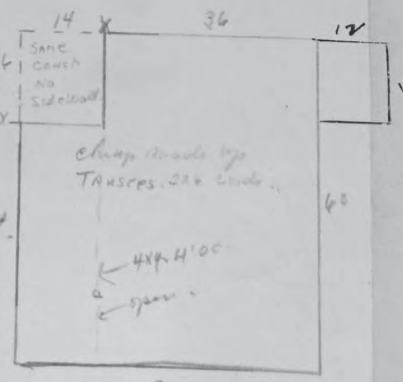
Treated Piles and Timbers
Untreated
Treated Piles only
Average Length
Paved

C. H.

S.B.
B
1 10
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22

GROUND FLOOR AREA 2700 3168 5400 '71

TOTAL FLOOR AREA



EXTERIOR FACING

Siding Shingles
Shakes Stucco
Brick Veneer
X CORR. ALUMINUM Kind
Stone Cast S.
Terra Cotta
Struct. Glass
Trim

INTERIOR TRIM

Fir
Mah. Oak
Metal
X METAL Doors
X WOOD Windows
Stained
Varnished
Painted
X Unfinished

FLOOR CONSTRUCTION

Joist Con. Size 2 x 12
O. C. 16" In Bridg
Mill Construction
Rein. Con.

Other Buildings	Construction	Floor	Roof	Stories	Dimensions	S. F. Area	Factor	Value	% Dep.	Deprec.	Net Value
Garage					x			$		$	$
					x			$		$	$
					x			$		$	$
					x			$		$	$

8604 Dallas Avenue

ASSESSED VALUE LAND

. . . . . $

PROVED ACRES

000160-0002 X ~~1000~~ ~~1040~~ 3015

5366

LIMITS	ROAD	SCHOOL	WATER	FIRE	TOTAL ACREAGE	TIMBER	IMPROVED	UNIMPROVED
Co	2	1		11	SEWER HOSPTL. AIRPT. FERRY	~~Hom~~		

YR	AC	LAND	BLDGS.	TOTAL	BY	DATE	REASON	FIR OTHER	DATE
19 ?		200							
49			1500		MJL	11-47	omitted on 1948 Roll		
19 49			1500		MJL	11-47	New Impr. built in 1946 - transf. from (2) to (44)		
19 52	.70	530	1500	2030	MJL(W)	10-9-51	Bldg from (44)	J.R. Angle E 9391	7-24-51
19 55		530	2700	3230	RD	9-11-53	area + Revalue		
19 59		1500	2700	4200	JG.	2/5/58	RV	Val 3945 Pg 90 - 3/6/59	
19 59	.71	1500	2700	4200	NL(71)	5/17/59	Seg T½ (1) + (2)	C.W.W #1	G-5675
19 60	"	1500	2700	4200	"	"	Exempt		"
19 66		4640	2700	7340	BB	4-6-65	RV		
19 71 XL		9280 B	5400 T	14680*000160-0002-0		8/9			
19 73		27050	1100	28150	GM	5/07/2	RV		
19									
19									
19									
19									
19									
19									

APPENDIX A.8

2016 Chemical and Equipment Inventory for South Park Marina

Chemical and Equipment Inventory for the South Park Marina

TIG environmental™
INVESTIGATIONS ▾ FORENSICS ▾ REMEDIATION

Chemical and Equipment Inventory for the South Park Marina

1. Introduction

The Intelligence Group, LLC (TIG) conducted inventories of the chemicals, potential hazardous materials, transformers, and storm and wash water treatment systems at the South Park Marina. This inventory included inspection of the South Park Marina operational spaces and shops and the retail tenant facilities, including South Park Tire Factory and Rick's Master Marine. Residential tenant buildings were excluded. Vessels and boats moored at the South Park Marina docks or being stored on the upland lot were not inspected.

TIG inspected seven buildings in total, all of which were in active use. This inspection noted chemicals and potential hazardous materials stored at the site. The buildings inspected included:

- SPM main administrative offices
- SPM main workshop
- SPM harbormaster shop
- Private tenant woodworking shop
- Tenant shower and laundry facilities
- Retail tenant: Rick's Master Marine
- Retail tenant: South Park Tire Factory

TIG also inventoried electrical transformers and air compressors located at the South Park Marina at the time of the visit.

2. Chemical Inventory

TIG inventoried over 900 individual chemical containers at the South Park Marina during field visits on September 20, 21, and 22 and October 18, 2016 (TIG 2016b; TIG 2016c). The majority of these were 1 quart or smaller in size, and included approximately 700 unique chemicals. Of the chemicals inventoried, most were located in the SPM main shop, South Park Tire Factory, Rick's Master Marine and a tenant woodworking shop (TIG 2016b; TIG 2016c). TIG reviewed chemical safety data sheets for these chemicals to identify constituents of concern (COCs) associated with the Lower Duwamish Waterway (LDW) that were present. Table 1 provides a complete list of chemicals inventoried. A brief overview of the findings in each area is provided below.

South Park Tire Factory

The South Park Tire Factory facility is the largest building at the South Park Marina site, at approximately 8,400 sq ft. The majority of this space is used for storage of new and used wheels and tires. A minority portion of the area is used as automotive service bays for wheel and tire servicing, brake servicing, and fluid changes. The remainder of the space is used as office and retail storefront space. The largest chemical quantity found at the site was approximately 140 gallons of bulk retail automotive engine oil. There were

also many small quantities of 1 quart or less of retail automotive products in this shop. A large (approximately 140-gallon) waste oil collection container was located in the building. The container is emptied weekly. Two 55-gallon barrels for spent antifreeze were also present.

Rick's Master Marine

Rick's Master Marine is comprised of a retail storefront and two service bays totaling approximately 4,200 sq ft. The largest chemical quantities discovered were stored in 55-gallon drums resting atop spill collection basins. These included two barrels of a 50/50 antifreeze mixture and three barrels containing engine gear oil. Two collection barrels for waste oil and a third for mixed solvents were also located in the shop. There was and one barrel each for waste solvent-bearing materials and oil filters. Other chemicals found onsite included retail engine and boat maintenance and cleaning products in the storefront area, as well as a range of similar chemicals in the service areas.

Main Shop

The South Park Marina main shop is a two-story building of approximately 1,800 sq ft. This building is used for supply storage and as a workspace for maintenance work performed onsite. Equipment present included welding materials, plumbing materials, lighting fixtures and electrical supplies, an assortment of tools, and marine chemicals in small volume containers. The majority of these were petroleum-based lubricants, assorted adhesives, degreasers, and paints. A steel cabinet containing flammables was located outside the entrance to the main shop, secured with a padlock. A 200-gallon, waste oil storage tank and two, 20-gallon, spent antifreeze barrels were located in a Conex box (which also houses the boat wash water treatment system) adjacent to the main shop.

Harbormaster Shop

The harbormaster shop, adjacent to the main shop, contained few chemicals, as its primary use appeared to be as a tool storage area for South Park Marina employees. Two electric-powered carts used to transport lightweight items throughout the marina were stored here. An assortment of tools and other equipment, similar those found in the main shop, were discovered in the harbormaster shop.

Woodworking Shop

A tenant carpentry and woodworking shop of approximately 2,500 sq ft was identified on the east end of the South Park Marina. This shop is primarily used for the crafting and repair of wooden boats and vessels. At the time of inventory, two wooden vessels were stored inside this three-bayed building. The most common chemicals found were paints and enamels.

Shower and Laundry Facility

The SPM tenant showers and laundry facility was investigated and found to contain small amounts of retail cleaning products.

Administrative Office

The SPM administrative office is an approximately 800 sq ft building used by South Park Marina staff as a break room, restroom, office, and storage area. This building contained small quantities of household cleaners and solvents, as well as 1-quart to 1-gallon containers of retail pesticides.

Liveaboard Tenants

Sewage waste generated by the South Park Marina's live-aboard tenants is collected and disposed offsite through the Clean Vessel Act Grant Program, which provides grant funds to states for the construction, renovation, operation, and maintenance of waste reception facilities and pumpout stations for recreational boaters (TIG 2016f; U.S. Fish & Wildlife Service 2016).

3. Transformer Inventory

During site visits on September 20 and October 18, 2016, TIG identified and inspected a total of four pole-mounted transformers at the South Park Marina (TIG 2016a; TIG 2016d). Three transformers were located on a single utility pole located next to the shower and laundry facility. The fourth transformer was located on a separate utility pole located next to the westernmost residential structure. One transformer, located on the pole next to the shower and laundry facility, bears a label confirming it contains less than 1 part per million (ppm) of polychlorinated biphenyls (PCBs). The others do not have labels indicating PCB content (TIG 2016d). Transformer external dimensions were also estimated from the ground. Three of the four transformers were estimated to be 3 ft in height and 1.6 ft in diameter. One of these three bears the less than 1 ppm PCB label. The fourth transformer was estimated to be 4 ft in height and 1.9 ft in diameter (TIG 2016a; TIG 2016d).

4. Compressor Inventory

During site visits on September 20, and October 18, 2016, TIG identified and inspected six air compressors at the South Park Marina, including one at the SPM main shop, one located in the harbormaster shop, one at the South Park Tire Factory facility, and three at Rick's Master Marine shop (TIG 2016b; TIG 2016e). Three of these, one at each location, were connected to permanent air supply piping for daily tool use, and also supplied air for inflation and related shop purposes. The compressor located in the harbormaster office, has been plumbed for usage. The two compressors at the Rick's Master Marine shop included one that was decommissioned and is stored in the workshop, and one that is attached to the dry fire suppression system for the building.

At the Rick's Master Marine shop, the shop-use compressor is serviced annually by the shop owner, while the fire suppression compressor is serviced annually by Froula Alarm Systems, Inc., which is also responsible for all fire extinguishers at the South Park Marina. The compressor at the South Park Tire Factory facility is serviced annually by South Park Tire Factory mechanics. The compressor itself was stated to be less than five years old, with an older tank. The compressor at the main shop is new and expected to be serviced annually. The compressor in the harbormaster office, although plumbed for usage, is not regularly used (TIG 2016e) .

5. Former Fueling Station

During the site visit, South Park Marina staff provided information on a former onsite fueling station and underground storage tank (UST). In the 1980s, a fueling station was located on the north end of the central gangway, supplied by a UST in front of the main office and parking area of the marina. In 1991, the station and associated fueling line were decommissioned and the UST was removed (Burlington Environmental 1991).

6. Summary

TIG conducted a thorough inspection of all public areas within the South Park Marina facility, with a focus on identifying stored chemicals or equipment that could potentially have contributed to current or past LDW contamination. Residential areas were not investigated, though are expected to contain typical household chemicals (e.g., cleaners and possibly retail pesticides). Most identified chemicals are related directly to automotive and marine maintenance, and nearly all of these were present in small retail containers of 1 gallon or less in volume. All chemicals, including oil and antifreeze present in larger volume containers, were stored properly in locations that did not show signs of past spills or mishandling. COCs pertaining to the LDW Superfund Site were determined by reviewing material safety data for inventoried chemicals. Table 1 provides a complete inventory list.

7. References

Burlington Environmental, Inc. 1991. *Documentation of Underground Storage Tank Removal.*

TIG (TIG Environmental). 2016a. *South Park Marina Site Visit for Transformer Inventory, September 20, 2016.*

TIG (TIG Environmental). 2016b. *South Park Marina Site Visit for Chemical Inventory, September 20, 21, and 22, 2016*

TIG (TIG Environmental). 2016c. *South Park Marina Site Visit for Chemical Inventory, October 18. 2016.*

TIG (TIG Environmental). 2016d. *South Park Marina Site Visit for Visual Inspection of Electrical Poles and Pole-mount Transformers, October 18, 2016.*

TIG (TIG Environmental). 2016e. *South Park Marina Site Visit for Visual Inspection of Air Compressors, October 18, 2016.*

TIG (TIG Environmental), Personal Communication with Guy Crow, South Park Marina Manager. November 23, 2016, 2016f.

U.S. Fish & Wildlife Service. 2016. "Clean Vessel Act Grant Program - Overview." December 12, 2016. https://wsfrprograms.fws.gov/Subpages/GrantPrograms/CVA/CVA.htm.

Table 1: Chemical Inventory

Chemical	Type	Quantity	Unit
South Park Marina: Wash Water Treatment Container			
3M Super Duty Rubbing Compound	Unknown	1	Gal
Aquazyme	Solvent	2	Lb
BioGuard Anti-Foam	Cleaner	1	Qt
Bon Ami Cleanser	Cleaner	28	Oz
CH2o Inc. Poly Floc 30	Cleaner	55	Gal
Cleaner/degreaser	Solvent	2	Qt
Eagle One NanoWax As-U-Wash	Cleaner	2	Qt
Joy liquid detergent	Cleaner	1	Gal
Henkel Technologies Alodine 1201	Coating	32	Oz
Motor oil (assorted)	Lubricant	1	Qt
Muratic acid	Solvent	2	Gal
Purple Power Prime Shine Car Wash	Cleaner	1	Gal
Spent antifreeze coolant	Other	60	Gal
Spent motor oil	Lubricant	275	Gal
Suck It Up oil absorber	Cleaner	32	Lb
Super Brite Instant Black Streak Remover	Cleaner	22	Oz
South Park Marina: Harbormaster Shop			
3-In-One Motor Oil	Compound	3	Oz
Aqua-Chem Tank Deodorant	Cleaner	4	Qt
Butchers Bowling Alley Wax	Cleaner	1	Lb
CRC Cutting Oil	Lubricant	12	Oz
Crown HD Adhesive	Adhesive	22	Oz
Crown Paint Thinner	Solvent	1	Gal
Durabond D-815 Carpet Adhesive	Adhesive	1	Qt
Evinrude Lubricant	Lubricant	12	Oz
Kerosene	Fuel	1	Gal

Table 1: Chemical Inventory

Chemical	Type	Quantity	Unit
Loctite Silver Grade Anti-Seize	Lubricant	4	Oz
Mercury Fuel Treatment	Solvent	24	Oz
Rapid Tap Cutting Fluid	Lubricant	4	Oz
RectorSeal pipe thread sealant	Adhesive	6	Oz
SeaFoam Motor Treatment	Solvent	1	Pt
Simple Green Cleaner	Cleaner	1	Gal
StaPut Plumber's Putty	Coating	14	Oz
SuperClean Degreaser	Solvent	1	Gal
USC Fiberglass Filler	Coating	1	Lb
South Park Marina: Main Shop (Air Station)			
Airgas compressed acetylene	Gas	1	N/A
Airgas compressed O2	Gas	1	N/A
South Park Marina: Main Shop (Antifreeze Bench)			
Antifreeze 50/50 prediluted, ready-to-use	Other	15	Gal
Liquid propane gas	Fuel	98.7	Oz
Loctite 598 Black High Performance RTV Silicone Gasket Maker	Adhesive	2.36	Oz
Marking chalk	Coating	4	Oz
Permatex Ultra Copper High Temp RTV Silicone	Adhesive	3	Oz
Victor Muffler Mender and Exhaust System Sealant	Coating	6	Oz
Window washer fluid	Other	2	Gal
South Park Marina: Main Shop (Drill Press Corner)			
ABC Dry Chemical Fire Extinguisher	Fire suppressant	29	N/A
LA's Totally Awesome Oxygen Orange Degreaser	Solvent	32	Oz
Liquid Wrench Solvent	Solvent	32	Oz
Oxy-acetylene torch	Hardware	1	N/A
Ramuc Epoxy Pool Paint	Adhesive	2	Gal

Table 1: Chemical Inventory

Chemical	Type	Quantity	Unit
Ridgid Thread Cutting Oil	Lubricant	1	Gal
Water fire extinguisher	Fire suppressant	5	N/A
West Marine Bottom Shield Paint	Coating	1	Gal
West Marine PCA Gold Premium Ablative Antifouling Paint	Coating	1	Gal
South Park Marina: Main Shop (Electrical Area)			
3M Scotchkote Electrical Coating, part no. 054007 14853	Coating	15	Oz
BasaLite Concrete Mix	Concrete	300	Lb
DeWalt Li-Ion 14.4V cordless tool battery	Battery	N/A	N/A
GB Ox-Gard OX-400	Lubricant	4	Oz
Great Stuff Polyurethane Foam Sealant	Adhesive	12	Oz
Klein Tools Premium Synthetic Clear Wire Lubricant	Lubricant	1	Qt
Makita Li-Ion 18V cordless tool battery	Battery	5	N/A
Mitee Pipe Joint Compound	Adhesive	2	Oz
Philips fluorescent bulbs (T8 32W, 48 in)	Lighting	25	N/A
Whitlam Select Unyte Thread Sealing Compound	Adhesive	2	Oz
South Park Marina: Main Shop (Entry)			
Benjamin Moore Acrylic House Paint	Coating	1	Qt
Corroseal (concentrated)	Solvent	1	Qt
Gunk Big Puncture Seal	Coating	24.5	Oz
Interlux Fiberglass Bottom Koat	Coating	1	Gal
Paslode Pneumatic Tool Lubricating Oil	Lubricant	32	Oz
PCA Gold Ablative Antifouling Paint	Coating	2	Gal
Sakrete High Strength Concrete Mix	Concrete	60	Lb
Seal-Krete Waterproofing Sealer	Coating	1	Gal
Slime Tube Sealant	Coating	32	Oz
Welding rods	Welding	3	N/A

Table 1: Chemical Inventory

Chemical	Type	Quantity	Unit
	Consumables		
South Park Marina: Main Shop (Hardware Area)			
Mercury High Performance Gear Lube SAE90	Lubricant	32	Oz
Performix Plasti Dip Rubber Coating	Coating	14.5	Oz
West Marine Antifouling Paint Bottomshield	Coating	2	Gal
South Park Marina: Main Shop (Main Floor Center)			
Weldworld Contact Cement	Adhesive	32	Oz
South Park Marina: Main Shop (Oil Corner)			
Automatic transmission fluid	Lubricant	35	Qt
Bilge Pro Bilge Cleaner	Cleaner	32	Oz
Brake cleaner	Solvent	3	Lb
Brake fluid	Lubricant	24	Oz
Browning Ultra-Fine Gun Oil	Solvent	4	Oz
Carburetor cleaner	Solvent	3	Qt
Copper Marine Anti-Seize	Lubricant	1	Lb
Cutting oil (mineral oil)	Lubricant	1	Qt
Davis Fiberglass Stain Remover	Solvent	16	Oz
Engine oil (assorted weights)	Lubricant	16	Qt
Form-A-Gasket Sealant	Adhesive	4	Oz
Gear oil/lube	Lubricant	5	Gal
G-n Metal Assembly Paste	Adhesive	17.6	Oz
Gunk Liquid Wrench with Teflon	Lubricant	11	Oz
H&W Copper Coat Gasket Compound	Adhesive	9	Oz
Hydraulic oil	Lubricant	5	Gal
Insta Trim Boat Leveler Co. Biodegradable Trim Tab Oil	Lubricant	16	Oz
Interlux Yacht Enamel Paint	Coating	1	Qt

Table 1: Chemical Inventory

Chemical	Type	Quantity	Unit
Lock-Ease Graphited Lock Fluid	Lubricant	3	Oz
Marine Grade Anti-Seize	Lubricant	8	Oz
Motor treatment fuel additive	Solvent	48	Oz
Multi-Purpose grease	Lubricant	8	Lb
Penetrating Lubricant	Lubricant	36	Oz
Permatex Gasket Remover	Solvent	12	Oz
Power steering fluid	Lubricant	24	Oz
Relton A-9 Aluminum Cutting Fluid	Lubricant	16	Oz
Silver Grade Anti-Seize	Lubricant	1	Lb
Starting fluid	Solvent	22	Oz
Super Clean Tough Task Cleaner Degreaser	Solvent	32	Oz
TruTest Silicone Lubricant	Lubricant	16	Oz
WD-40	Lubricant	1	Gal
White Lithium Grease	Lubricant	10	Oz
Zero Rust Direct-to-Metal Stops Rust Now	Coating	12	Oz
Zinc Rich Coating	Coating	1.5	Lb
South Park Marina: Main Shop (Outdoor Flammables Cabinet)			
2-Cycle Oil	Other	1	Gal
AlumiPrep 33	Coating	1	Qt
Denatured alcohol	Cleaner	1	Qt
Diesel	Fuel	5	Gal
FarWest Synthetic Thinner	Solvent	1	Gal
Gasoline	Fuel	40	Gal
InterLux 2316	Coating	1	Qt
InterLux 2333N	Coating	1	Qt
InterLux 299E	Coating	1	Qt
InterLux 333	Coating	2	Qt

Table 1: Chemical Inventory

Chemical	Type	Quantity	Unit
Kerosene	Fuel	5	Gal
Klean Strip Paint Thinner	Solvent	2	Gal
O-186 Go-75W Multipurpose Oil	Lubricant	5	Gal
SABER 100x1 Premix	Lubricant	1	Qt
South Park Marina: Main Shop (Plumbing Shop)			
20-10 Windshield Cleaner concentrate	Compound	32	Oz
ABS Cement	Unknown	8	Oz
Ace Royal Shield Acrylic Latex Enamel	Unknown	1	Qt
Acetone	Unknown	1	Gal
Aluma Brite concentrated aluminum cleaner brightener	Cleaner	1	Gal
Ammonia cleaner	Cleaner	128	Oz
Armor All	Cleaner	10	Oz
Atco Wet Surface Roof Patch 1823	Coating	1	Gal
Baking soda	Cleaner	13.5	Lb
BASF Master Seal Self Leveling High Performance Polyurethane Sealing	Adhesive	27.8	Oz
Behr Paint & Primer One Exterior Enamel	Coating	10	Gal
Behr Waterproofing Sealer	Coating	1	Gal
Behr White Enamel Paint	Coating	5	Gal
Clorox Bleach	Cleaner	24	Oz
Color Putty Co. Color Putty	Coating	7.36	Oz
Corothane I-Aliphatic Moisture Cure Urethane	Coating	2	Gal
Corothane MIO	Coating	2	Qt
Corroseal	Solvent	1	Gal
Corothane I-Aliphatic Moisture Cure Urethane	Coating	2	Gal
Custom Silk CaAl based patch and finish compound	Coating	10	Lb
Cutter Bug Free Backyard Outdoor Fogger	Pesticide	16	Oz

Table 1: Chemical Inventory

Chemical	Type	Quantity	Unit
Dap 100% Waterproof Windoor Door & Trim Sealant	Adhesive	1500	Ml
Dap Polyurethane Construction Adhesive Sealant ProGrade	Adhesive	10.1	Oz
Dap Weldwood Contact Cement	Adhesive	16	Oz
Dietzgen Ammonium Hydroxide	Cleaner	1	Gal
Drive-Maxx 700 Black Jack Driveway Sealer	Coating	15	Gal
Enforcer 10min Hair Clog Remover	Solvent	64	Oz
Evercoat HomeFix Universal Repair Filler 100-769	Coating	2	Lb
Exterior house paint (assorted)	Coating	6	Gal
Firm Foot Epoxy Spray with Grit	Adhesive	12	Oz
Formby's Tung Oil Finish	Solvent	16	Oz
Power House Glass cleaner	Cleaner	22	Oz
Gojo Foam Antibacterial hand cleaner	Cleaner	3750	Ml
Great Stuff Gaps & Cracks Insulating Foam Sealant	Adhesive	24	Oz
Green Diamond Slag Products	Abrasive	100	Lb
Henry 107 Asphalt Emulsion	Coating	0.9	Gal
Henry 201 Asphalt Roof Coating	Coating	2	Gal
Henry 304 Asphalt Driveway Patching Mix	Coating	11	Lb
Henry Rubberized Wet Patch 208R	Coating	0.9	Gal
HomeLife Wasp & Hornet Killer	Pesticide	14	Oz
Huber Ground Limestone Hubercarb S-200	Coating	50	Lb
Ideal Aqua-Gel Cable Pulling Lubricator	Lubricant	1	Qt
Interlux 353 Vinyl-Lux Prime Wash Base	Coating	1	Qt
Interlux Micron CSC Extra Antifouling Marine Paint	Coating	1	Gal
Interlux Solvent 216 Special Thinner	Solvent	1	Qt
Interlux Trilux 33 Marine Spray Paint	Coating	11	Oz
Jasco Metal Etch	Solvent	2	Qt

Table 1: Chemical Inventory

Chemical	Type	Quantity	Unit
Jasco Prep & Primer For Rusted and New Metal	Coating	1	Gal
Jasco Termin-8H2O Wood Preservative	Solvent	1	Gal
LA's Totally Awesome All Purpose Concentrated Cleaner Degreaser Spot Remover	Cleaner	16	Oz
LA's Totally Awesome Cleaner with Bleach	Cleaner	64	Oz
Libby Owens Ford Auto Glass & Accessory Cleaner	Cleaner	19	Oz
Lilly Miller Casoron Granules	Pesticide	1.25	Lb
Ilsco De-Ox Aluminum and Copper Terminal Oxidation Inhibitor	Adhesive	4	Oz
Magnetite Acrylic Scratch Remover	Solvent	15	Oz
MDR Liquid Electric Tape	Adhesive	4	Oz
Meguiar's Mirror Glaze	Cleaner	16	Oz
Microban Disinfectant Spray Plus	Cleaner	1	Gal
Mineral Spirits	Solvent	1	Qt
Murphy's Oil Soap	Cleaner	32	Oz
Permatex Copper Spray-a-Gasket	Adhesive	9	Oz
PermoSeal Plastic Spray	Coating	8.5	Oz
Petit Marine Paint Brushing Thinner	Solvent	1	Gal
Pettit ACP-50 Antifouling Marine Paint	Coating	1	Qt
Purple PVC primer	Coating	32	Oz
PVC cement	Adhesive	64	Oz
Raid Wasp & Hornet Killer	Pesticide	17.5	Oz
Resolve Dual Action Foam Carpet Cleaner	Cleaner	22	Oz
Rodda Master Painter Interior Latex	Coating	5	Gal
Safe Step Mag Chloride 8300 Ice Melter	Snow removal	300	Lb
Scotchgard Protector for Fabric and Upholstery	Cleaner	14	Oz
SeaLand Holding Tank Deodorant	Cleaner	16	Oz
Seapower Inflatable Boat & Fender Cleaner	Cleaner	16	Oz

Table 1: Chemical Inventory

Chemical	Type	Quantity	Unit
Preserver			
Sherwin Williams Corothane I-HS	Coating	2	Gal
Sherwin Williams Promar B29-WI Zone Marking Paint	Coating	1	Gal
Sikaflex Marine Adhesive	Adhesive	7500	Ml
Simonize II Premium Liquid Wax	Cleaner	16	Oz
Skyco Ospho	Coating	3	Gal
Spray paint (assorted)	Coating	209	Oz
StaPut Plumber's Putty	Coating	70	Oz
Starbrite Inflatable Boat and Fender Cleaner/Polish	Cleaner	32	Oz
Suck It Up Absorbant Solidifier	Cleaner	16	Lb
Tec General Use Multi Floor Adhesive	Adhesive	4	Gal
The Home Store non-Abrasive Bathroom Cleaner	Cleaner	13	Oz
Thompson's Waterseal	Coating	1	Gal
Tuff Stuff All Purpose Foam Cleaner	Cleaner	22	Oz
Turpentine	Solvent	1	Qt
Ultra-Maxx 1000 Black Jack Fast Dry Driveway Filler & Sealer	Coating	4.75	Gal
Watco Teak Oil Finish	Cleaner	1	Pt
West Marine PCA Gold Ablative Antifouling Paint	Coating	1	Gal
Zinsser Bin Primer	Coating	1	Gal
Z-Spar Marine Enamel	Coating	1	Gal
South Park Marina: Main Shop (Tool Area)			
409 Cleaner	Cleaner	1	Qt
Bar oil	Lubricant	1	Gal
Boat Bottom Seam Compound	Coating	1	Pt
Boiled Linseed Oil	Cleaner	1	Qt
Cabot Clear Solution Wood Finish	Coating	1	Gal

Table 1: Chemical Inventory

Chemical	Type	Quantity	Unit
Daly's Benite Penetrating Wood Conditioner Prod.# 11040	Cleaner	1	Qt
Dalys SeaFin Ship'n Shore	Coating	1	Qt
Dolfinite 2005 Natural Bedding Compound	Coating	1	Qt
Elastic Seam Compound	Adhesive	1	Pt
Fast Orange Hand Cleaner	Cleaner	15	Oz
Fast Orange Hand Cleaner	Cleaner	1	Gal
Gojo Natural Orange Hand Cleaner	Cleaner	14	Oz
Hydraulic and Jack Oil	Lubricant	32	Oz
Interlux Interprime Wood Sealer	Coating	1	Qt
Isopropyl Alcohol 70%	Cleaner	1	Qt
Krud Kutter Cleaner Degreaser	Solvent	32	Oz
Lead acid Marine Batteries	Metals	6	
Liquid Nails adhesive	Adhesive	4	Oz
Loctite 609 Pressfit Adhesive	Adhesive	50	Ml
Metallic spray paint	Coating	11	Oz
Napa Clean-R-Carb Carbourator Cleaner	Solvent	1	Lb
Office Depot Cleaning Duster	Cleaner	20	Oz
Olympic Waterguard Waterproofing Clear Wood Sealant	Coating	1.2	Gal
Shopper's Value Dishwashing Liquid	Cleaner	25	Oz
Squeeze It Oil Can	Lubricant	6	Oz
Terro Ant Killer Liquid Ant Baits	Pesticide	4.4	Oz
WD-40 Industrial Electrical Contact Cleaner	Lubricant	11	Oz
West Marine CPP Antifouling Marine Paint Blue	Coating	1	Gal
Window Glass Cleaner	Cleaner	64	Oz
South Park Marina - Main Shop (Under Stairs)			
Lead weights	Metals	400	Lb

Table 1: Chemical Inventory

Chemical	Type	Quantity	Unit
South Park Marina - Main Shop (Upstairs)			
Diesel Fuel Conditioner and Anti-Gel	Solvent	12	Oz
Stardust Superabsorbent	Cleaner	25	Lb
South Park Marina - Main Shop (Welding Station)			
Energizer lead acid battery 12V 1400 CCA	Battery	1	N/A
South Park Marina - Office (Back Room)			
House paint (assorted)	Coating	3	Qt
South Park Marina: Marina Office (Bathroom)			
Enforcer BugMax	Pesticide	32	Oz
Febreeze	Cleaner	9.7	Oz
Hydrogen peroxide	Cleaner	16	Oz
Lysol Disinfectant Spray	Cleaner	19	Oz
Pro Soap Water-Activated Hand Soap	Cleaner	15	Lb
Raid Ant & Roach Killer	Pesticide	20	Oz
Scrubbing Bubbles Bathroom Cleaner	Cleaner	25	Oz
Scrubbing Bubbles Mega Shower Foamer	Cleaner	20	Oz
Soft Scrub with Bleach	Cleaner	24	Oz
Swiffer Duster Refills Recharges	Cleaner	24	sheets
Xtra-Pine floor cleaner	Cleaner	40	Oz
South Park Marina: Main Office (Kitchen)			
GermX Hand Sanitizer	Cleaner	10	Oz
Glacier Bay Hand Cleaner	Cleaner	1	Gal
GOJO Natural Orange Pumice Hand Cleaner	Cleaner	14	Oz
Goo Gone	Cleaner	8	Oz
Lime A-Way	Cleaner	28	Oz
Lysol All Purpose Cleaner	Cleaner	1	Qt
Tilex Mold & Mildew Remover with Bleach	Cleaner	1	Qt

Table 1: Chemical Inventory

Chemical	Type	Quantity	Unit
Trisodium phosphate	Cleaner	16	Oz
White vinegar	Cleaner	1	Gal
World Famous Colonel Brassy Surface Cleaner	Cleaner	16	Oz
Zep Streak Free Glass Cleaner	Cleaner	1	Qt
South Park Marina: Main Shop (Storeroom)			
Bar's Leaks Liquid Aluminum Radiator Stop Leak	Coating	8.5	Oz
Bio-Clean The Friendly Bacteria Waste Eliminator	Cleaner	2	Lb
BoatLife Life-Calk	Adhesive	930	Ml
Bonide Bedbug Killer	Pesticide	1	Gal
Castrol Super Clean Cleaner Degreaser	Solvent	4	Oz
Colonel Brassy Surface Cleaner	Cleaner	32	Oz
Copper Green Brown Wood Preservative	Coating	32	Oz
CorrosionX Lubricant	Lubricant	6	Oz
CRC Freeze Off Super Penetrant	Lubricant	23	Oz
d-CON Flea Kill	Pesticide	6	Oz
Deck Stain Latex	Coating	2	Gal
Enforcer Flea Fogger	Pesticide	4	Oz
Galvicon Cold Galvanizing Compound	Coating	2	Gal
Goof Off	Solvent	4.5	Oz
Grant's Kills Ants	Pesticide	12	Oz
High Temperature Spray Paint	Coating	22	Oz
Ice Melter	Snow removal	50	Lb
Kleen Warrior All Purpose Cleaner Degreaser	Solvent	10	Qt
Lilly/Miller Hose-n Go Blackberry & Brush Killer	Pesticide	1	Qt
Liquid Wrench Marine Grease	Lubricant	75	Oz
Low Odor Mineral Spirits	Solvent	32	Oz
LPS ChainMate Moly Lubricant	Lubricant	44	Oz

Table 1: Chemical Inventory

Chemical	Type	Quantity	Unit
Metal Primer	Coating	1	Gal
Miracle-Gro Shake'n Feed	Garden	4.5	Lb
Miracle-Gro Plant Food concentrated 15-30-15	Garden	24	Oz
Misty Glypho Kill	Pesticide	1	Gal
Misty WK-44 Concentrate	Pesticide	1	Gal
Narco 109-M Marine Cleaner	Cleaner	1	Gal
Nautical Glass Ultimate Marine Finish	Coating	2	Pt
Octane Boost Marine	Solvent	36	Oz
Ortho Diazinon Granules	Pesticide	1	Lb
Ortho Diazinon Insect Spray	Pesticide	1	Pt
Ortho Home Pest Insect Control	Pesticide	1	Pt
Ortho RosePride Orthorex Insect & Disease Control	Pesticide	14	Oz
Penetro 90 Penetrating Oil	Lubricant	13	Oz
Phosphoric Acid + Hydrofluoric Acid cleaning mix	Cleaner	1	Qt
Quikrete Concrete Mix	Concrete	60	Lb
Raid Yard Guard Outdoor Fogger Formula V	Pesticide	16	Oz
RainX	Solvent	7	Oz
Rooto Professional Drain Opener	Cleaner	3	Gal
RoundUp Concentrate	Pesticide	64	Oz
RoundUp Extended Control Ready-to-Use	Pesticide	1.33	Gal
RoundUp Ready-to-Use	Pesticide	1.33	Gal
SeaLand Max Control Holding Tank Deodorant	Cleaner	8	Oz
Sherwin Williams 950A Siliconized Acrylic Latex Caulk	Coating	60.6	Oz
Silicone Kitchen & Bath	Adhesive	40.4	Oz
Specs Paint Thinner	Solvent	16	Oz
Spectracide Carpenter Ant & Termite Killer	Pesticide	32	Oz

Table 1: Chemical Inventory

Chemical	Type	Quantity	Unit
Spill-X Dispersant & Eliminator	Cleaner	2	Pt
Splash Zone Epoxy Compound Part A	Adhesive	16	Oz
Splash Zone Epoxy Compound Part B	Adhesive	16	Oz
Spray paint (assorted)	Coating	110	Oz
Sunnyside Lacquer Thinner	Solvent	16	Oz
Sunnyside Odorless Paint Thinner	Solvent	32	Oz
SuperLube Dri-Film Lubricant with PTFE	Lubricant	11	Oz
SuperLube Synthetic Lubricant with PTFE	Lubricant	11	Oz
Tech America Ecto Gard Fogger	Pesticide	12	Oz
Tide Laundry Soap	Cleaner	100	Oz
TSP Spectracide Indoor Fogger	Pesticide	18	Oz
Weldwood Contact Cement	Adhesive	32	Oz
Wet or Dry PVC Cement	Adhesive	8	Oz
Zinc Rich Cold Galvanizing Compound	Coating	14.75	Oz
South Park Marina: Marina Showers			
Fabuloso Multi-Purpose Cleaner	Cleaner	22	Oz
LA's Totally Awesome Ammonia	Cleaner	1	Gal
LA's Totally Awesome Shower Cleaner	Cleaner	32	Oz
MotsenBocker's Lift Off	Cleaner	44	Oz
Windex	Cleaner	2	Qt
Woodworking Shop: Center Bay			
2-Cycle Motor Oil	Lubricant	16	Oz
3M Marine Aluminum Restorer & Polisher	Coating	18	Oz
3M Marine Compound & Finishing Material	Coating	1	Gal
Ace Hardware Lub-E	Lubricant	11	Oz
Acrylic latex tile grout	Cleaner	32	Oz
Acrylic paint	Coating	15	Oz

Table 1: Chemical Inventory

Chemical	Type	Quantity	Unit
Acrylic reinforcing mix	Coating	2.5	Gal
AcrylPro Ceramic Tile Mastic	Cleaner	1	Qt
Antique Black Stove and Iron Polish	Coating	8	Oz
Aqua Blue 100 Fast-Cut Compound	Solvent	1	Qt
Aqua Blue 200 Buffind and Polishing Compound	Coating	1	Qt
Aqua Clean Tabs Water Purifying Tablets	Cleaner	32	N/A
Black Flag Home Insect Control	Pesticide	1.33	Gal
Brasso Metal Polish	Coating	16	Oz
Captain John's Boot Brite	Cleaner	12	Oz
Carb & Choke Cleaner	Solvent	25	Oz
CB BORiD Insect Killer	Pesticide	1	Lb
Citristrip Stripping Gel	Solvent	64	Oz
CLR	Other	28	Oz
Compressed gas - unlabeled cylinder	Fuel	N/A	N/A
Compressed O2	Fuel	N/A	N/A
Crystalline Clear Museum Wax	Coating	50	G
Dexol Systematic Grannules Insect Control	Pesticide	10	Oz
Dow Stain Stick	Cleaner	4.4	Oz
Dry tile grout	Cleaner	20	Lb
Fast & Hot Ice Melter	Coating	7	Lb
FSR Big Job Fiberglass Stain Remover	Cleaner	4	L
Glass Wash Soap	Cleaner	12	Oz
Great Stuff Gaps & Cracks Filler	Coating	12	Oz
Gr-reat'N Easy Bathroom Cleaner	Cleaner	16	Oz
Gunk Purple Cleaner Degreaser	Solvent	32	Oz
Gunk Puncture Seal	Coating	18	Oz
Harvest Store Industrial Glass Polishing Powder	Coating	10	Oz

Table 1: Chemical Inventory

Chemical	Type	Quantity	Unit
Hypalon Inflatable Boat Glue	Adhesive	70	Cc
HypoyC Gear Oil	Lubricant	2	Qt
Ideal NoAlox Joint Compound	Coating	8	Oz
K-91 Tack Set Vinyl & Plank Adhesive	Adhesive	1	Gal
Kilz Primer	Coating	5	gal
Kiwi Boot Protector Silicone	Coating	12	oz
Kleen Strip Wood Bleach Solution A	Cleaner	16	oz
Kleen Strip Wood Bleach Solution B	Cleaner	16	oz
Lawnmower Motor Oil	Lubricant	16	oz
Legacy of Clean Pre Wash	Cleaner	1	qt
Lime Scale Remover	Solvent	8	oz
LIP Acrylic 400	Coating	2	qt
Master Wholesale Inc. M-Bond Bonding Agent	Coating	1	gal
MDR Instant Fender Cleaner	Cleaner	16	oz
Meguiar's Paint Cleaner	Cleaner	16	oz
Meguiar's Quick Wax	Coating	1	pt
MerMaids Super Swabby Bilge Cleaner	Cleaner	3	gal
Miracle-Gro Liquid	Other	8	oz
Mother's Mag & Aluminum Polish	Coating	20	oz
Noxon 7 Metal Polish	Coating	12	oz
NuFinish	Coating	16	oz
Oatey All Purpose Cement	Adhesive	4	oz
Old English Wood Conditioner	Coating	8	oz
Paint'n Tex Perlite Aggregate	Coating	1	lb
Parawax Household Wax	Coating	1	lb
PB Penetrating Catylist	Solvent	4	oz
Perfect-It III Rubbing Compound	Coating	1	qt

Table 1: Chemical Inventory

Chemical	Type	Quantity	Unit
Perfect-It Machine Polish	Coating	2	qt
PeriClean Water System Cleaner	Cleaner	400	g
Permatex All Purpose Spray Adhesive	Adhesive	10.5	oz
Pine-Sol	Cleaner	1.41	L
Pledge Revitalizing Oil	Coating	1	pt
Plexus Plastic Cleaner	Cleaner	13	oz
Pneumatic Tool Oil	Lubricant	8	oz
Power Steering Fluid	Lubricant	12	oz
Scotchgard Marine Wax	Coating	3	L
Scouring Powder (assorted)	Other	252	oz
Sears Concentrated Carpet Cleaner	Cleaner	1	gal
Shout Action Gel	Cleaner	14	oz
Silica Sand	Other	2	qt
Silicone Spray Lubricant	Lubricant	10.25	oz
Simple Green Bike Degreaser	Solvent	20	oz
Soft Scrub Cleanser	Cleaner	26	oz
Special Value Orange All Purpose Cleaner	Cleaner	1	qt
Starbrite Water Conditioner	Cleaner	4.5	oz
Starbrite Rust Stain Remover	Cleaner	22	oz
STP Son of a Gun Protectant	Coating	1	qt
Tacoma Screw Products Gasket Maker	Coating	7.25	oz
Teak Wood Deck Cleaner	Cleaner	2	gal
Thompson's Water Seal	Coating	12	oz
TSP Plus Cleaner Degreaser	Solvent	32	oz
Turtle Wax	Coating	36	oz
Turtle Wax Zip Car Wash	Cleaner	2	qt
Twinkle Copper Cleaner	Cleaner	4	oz

Table 1: Chemical Inventory

Chemical	Type	Quantity	Unit
West Marine Stop Odor	Cleaner	16	oz
West Marine Teak Cleaner & Brightener	Cleaner	2	qt
Western Family Laundry Stain Remover spray	Cleaner	22	oz
Wheat Paste Wallpaper Adhesive	Adhesive	10	oz
White Teflon Lubricant	Lubricant	13	g
Wilson Art 500 Contact Adhesive	Adhesive	5	gal
Woodworking Shop: Flammables Cabinet			
Ammonia Strong Solution 27%	Cleaner	1	qt
Dalys Benite	Other	1	gal
Fiberglass Solvent Wash Solvent 202	Solvent	1	qt
Flood ESP	Coating	1	qt
Flood Penetrol	Coating	1	gal
Isopropyl Alcohol	Solvent	3	pt
Japan Drier	Coating	32	oz
Jasco Termin-8	Pesticide	1	qt
Klean Strip Stripper	Solvent	1	qt
Linseed Oil	Lubricant	1	qt
Methyl Ethyl Ketone (MEK)	Solvent	1	qt
Penetrating Conditioner	Solvent	1	pt
Pro-Finisher by Parks - Sanding Sealer	Coating	1	gal
Pro-Line 20 Vinyl Rtardr	Coating	1	gal
Rexco Partall Film No. 10	Coating	1	gal
Rodda Paint Prep Shield anti-corrosion	Coating	1	qt
Shipmates Rust Gone Metal Prep	Solvent	1	qt
Solvent 233N Reducing Solvent	Solvent	2	qt
Solvent 355 Viny-Lax Solvent	Solvent	1	qt
Sterling Primer Catylist A-1000C	Coating	3	gal

Table 1: Chemical Inventory

Chemical	Type	Quantity	Unit
Superox 46-720	Other	2	gal
Thinner (assorted)	Solvent	1	gal
Toluene	Solvent	1	qt
Zippo Lighter Fluid	Fuel	12	oz
Woodworking Shop: Paint Cabinet			
Awl-Cat #2 Topcoat Cementor for Spray Application	Coating	1	gal
BASF Natural B	Solvent	5	gal
BoatLife Git Rot Part A	Coating	32	oz
Foam & Filler	Coating	1	gal
Paint and primer (assorted)	Coating	23	qt
Titebond Premium Wood Glue	Adhesive	16	oz
Ultra Smooth Finishing Putty	Coating	5.5	lb
Woodworking Shop: Saw Room			
House paint	Coating	1	gal
Lightweight fairing powder (glass beads)	Other	360	g
Ni-Cad 18V cordless tool batteries	Battery	4	
Rot Fix System Three Part	Coating	24	oz
Rust/Corrosion Protection Spray Paint	Coating	11	oz
Smith's Epoxy Sealer Part A	Adhesive	1	gal
Smith's Epoxy Sealer Part B	Adhesive	1	gal
System 3 Wood Flour	Coating	1	lb
Top Secret Coatings 101 Thinner	Solvent	1	qt
Woodworking Shop: Wood Finish Cabinet			
Crown Spra-Tool Accelerant	Solvent	26	oz
Elmers Wood Filler	Coating	2	qt
Minwax Wood Putty	Coating	8	oz
Smith's Clear Penetrating Epoxy Sealer Part A	Adhesive	1	gal

Table 1: Chemical Inventory

Chemical	Type	Quantity	Unit
Smith's Clear Penetrating Epoxy Sealer Part B	Adhesive	1	gal
Thinners, Strippers, Reducers	Solvent	3	gal
Titebon Premium Wood Glue	Adhesive	16	oz
Varnish, Sealer, Finish, Preserver	Coating	36	qt
West System 206 Slow Hardener	Adhesive	27.5	oz
West System 40L Colloidal Silica Adhesive Filler	Adhesive	165	oz
Rick's Master Marine: Bathroom			
Clorox Bleach	Cleaner	64	oz
Clorox Disinfecting Wipes	Cleaner	10.75	oz
Comet with Bleach	Cleaner	28	oz
Dish soap	Cleaner	1	gal
Fast Orange Hand Cleaner	Cleaner	1	gal
Home Sense Auto Dishwasher Gel	Cleaner	150	oz
Peak Marine Antifreeze Coolant	Other	1	gal
RoundUp Concentrated Mix	Pesticide	1	gal
Simple Green Cleaner	Cleaner	1	gal
Sudbury Eco Zope Plus	Cleaner	12	oz
Windex Advanced	Cleaner	1.34	gal
Windex Advanced	Cleaner	1	qt
Rick's Master Marine: Front Office			
Clorox Disinfecting Wipes	Cleaner	559	g
Simple Green Industrial Cleaner Degreaser	Solvent	1	gal
Speed-Wall Interior 1456 Latex Paint	Coating	2	gal
Spray bottle labeled water+ammonia	Cleaner	1	qt
Staples Screen Cleaning Fluid	Cleaner	4	oz
Sudbury Eco Zope Plus	Cleaner	4	oz
XP Lab Inc XP3 Extra Power for Gasoline	Solvent	150	ml

Table 1: Chemical Inventory

Chemical	Type	Quantity	Unit
Rick's Master Marine: Outdoor Storage			
Used absorbent pads	Other	55	gal
Used (drained) oil filters	Other	55	gal
Rick's Master Marine: Retail Storefront			
303 Aerospace Protectant	Cleaner	8	oz
BernzOMatic Propane	Fuel	16.4	oz
Bostik Marine Marine Grade 940 FS High Performance Sealant/Adhesive	Adhesive	10	oz
Civic Premium Blend Gearcase Lube	Lubricant	1	qt
CRC 6-56 Zero VOC Multi-Purpose	Lubricant	11	oz
CRC Engine Stor Fogging Oil	Solvent	13	oz
CRC Fuel Stabilizer	Solvent	16	oz
CRC Heavy Duty Corrosion Inhibitor	Coating	10	oz
CRC Octane Boost	Solvent	12	oz
DuraPlus Power Steering & Trim Fluid	Lubricant	16	oz
Evinrude/Johnson Gearcase Lube	Lubricant	1	qt
Evinrude/Johnson Needle Bearing Assembly Grease	Lubricant	3.5	oz
Evinrude/Johnson Touch Up Paint	Coating	12	oz
Honda Marine Corrosion Inhibitor	Coating	16	oz
Honda Marine Multi-Purpose Extreme Pressure Marine Grease	Lubricant	14	oz
Honda Marine Power Trim & Tilt Fluid	Lubricant	1	qt
Honda Marine SAE 10W-30	Lubricant	1	gal
Honda Marine SAE 10W-30	Lubricant	1	qt
Honda Marine SAE 5W-30	Lubricant	1	qt
Honda Marine SAE 80W-90 Gear Case Oil	Lubricant	1	qt
Honda Marine Touch Up Paint	Coating	12	oz

Table 1: Chemical Inventory

Chemical	Type	Quantity	Unit
Marine Formula 6-56 Multi-Purpose Lubricant	Lubricant	8	oz
MaryKate Instant Black Streak Remover	Cleaner	1	qt
MaryKate On & Off Hull & Bottom Cleaner	Cleaner	1	qt
Meguiar's Metal Guard	Coating	22	oz
Meguiar's Fiberglass Restoration System	Cleaner	2	
Meguiar's Non-Skid Deck Cleaner	Cleaner	32	oz
Meguiar's Oxidation Remover	Cleaner	1	pt
Meguiar's Power Cut Compound	Cleaner	1	qt
Meguiar's Pure Wax	Cleaner	16	oz
Meguiar's Quik Wax	Cleaner	1	pt
Meguiar's Ultimate Detailer	Cleaner	24	oz
Meguiar's Vinyl & Rubber Cleaner and Protectant	Cleaner	1	pt
Mercury Extended Life Coolant Anti-Freeze	Other	1	gal
Mercury OptiMax Outboards Synthetic Blend Outboard Oil	Lubricant	1	gal
Mercury Performance Lubricants 4 Stroke Marine Engine Oil	Lubricant	1	qt
Mercury Performance Lubricants 4 Stroke Marine Engine Oil	Lubricant	1	gal
Mercury Performance Storage Seal Fogging Oil	Solvent	12	oz
Mercury Precision Care Synthetic Power Steering Fluid	Lubricant	8	oz
Mercury Precision Lubricants 2-4-C Marine Lubricant with PTFE	Lubricant	14	oz
Mercury Precision Lubricants Premium Plus 2 Stroke Marine Engine Oil	Lubricant	1	pt
Mercury Precision Lubricants Synthetic Blend Verado 4-Stroke Outboard Oil	Lubricant	1.06	gal
Mercury Precision Lubricants Synthetic Power	Lubricant	1	qt

Table 1: Chemical Inventory

Chemical	Type	Quantity	Unit
Steering Fluid			
Mercury Protection Care Quickare Fuel Treatment # 1	Solvent	12	oz
Mercury Protection Care Quickleen Engine & Fuel System Cleaner # 2	Solvent	12	oz
Mercury Protective Care Quickstop Fuel Stabilizer	Solvent	12	oz
Mercury Racing 4-Stroke Engine Oil	Lubricant	1	qt
Mercury Racing 4-Stroke Engine Oil	Lubricant	1	gal
Mercury Synthetic Blend 4-Stroke Engine Oil	Lubricant	1	gal
Pennzoil Dex/Merc Automatic Transmission Fluid	Lubricant	1	qt
Pennzoil Premium Wheel Bearing 707L Red Grease	Lubricant	16	oz
Perfect Seal Sealing Compound	Adhesive	16	oz
Quicksilver High Performance Extreme Grease	Lubricant	14	oz
Quicksilver High Performance Extreme Grease	Lubricant	8	oz
Quicksilver Marine Lubricants 4-Stroke Marine Engine Oil	Lubricant	1	qt
Quicksilver Marine Lubricants Full Synthetic 4 Cycle Engine Oil	Lubricant	1	qt
Quicksilver Marine Lubricants High Performance Gear Lube	Lubricant	1	qt
Quicksilver Marine Lubricants Hydraulic Helm Steering Fluid	Lubricant	1	qt
Quicksilver Marine Lubricants Performance DFI Oil Direct Fuel Injection	Lubricant	1	gal
Quicksilver Marine Lubricants Power Trim and Steering Fluid	Lubricant	1	qt
Quicksilver Marine Lubricants Premium 2 Stroke Engine Oil	Lubricant	1	pt
Quicksilver Marine Lubricants Premium Plus 2 Stroke Marine Engine Oil	Lubricant	16	oz

Table 1: Chemical Inventory

Chemical	Type	Quantity	Unit
Quicksilver Marine Lubricants Premium Plus 2 Stroke Marine Engine Oil	Lubricant	1	qt
Quicksilver Marine Parts & Accessories Enamel Spray Paint	Coating	12	oz
Quicksilver Marine Parts & Accessories Power Trim & Steering Fluid	Lubricant	8	oz
Quicksilver Marine Parts & Accessories System Antifreeze	Other	1	gal
Quicksilver Needle Bearing Assembly Lubricant	Lubricant	8	oz
Quicksilver Power Tune Internal Engine Cleaner	Solvent	12	oz
Quicksilver Valve Lubricant	Lubricant	12	oz
SeaChoice Bilge Cleaner	Cleaner	1	qt
SeaChoice Boat Wash	Cleaner	1	qt
SeaChoice Deck Cleaner	Cleaner	32	oz
SeaChoice Hull Cleaner	Cleaner	1	qt
Seapower Marine Cleaner and Wax	Cleaner	1	qt
Seapower Marine Cleaner and Wax	Cleaner	1	gal
SeaStar Hydraulic Steering Fluid	Lubricant	1	qt
Sierra Marine Bearing Grease	Lubricant	10	oz
Sierra Marine Full Synthetic Marine Engine Oil	Lubricant	5	qt
Sierra Marine Synthetic Blend Gear Lubricant	Lubricant	10	oz
Sierra Spline Grease	Lubricant	14	oz
Sierra Spray-Lith White Grease	Lubricant	12	oz
Starbrite Black Streak Remover	Cleaner	1	gal
Starbrite Black Streak Remover	Cleaner	24	oz
Starbrite EZ-To-Store EZ-To-Start Diesel Fuel Storage Additive/Stabilizer	Solvent	16	oz
Starbrite Inflatable Boat and Fender Cleaner/Polish	Cleaner	16	oz
Starbrite No Damp Moisture Absorbent Dehumidifier	Solvent	12	oz

Table 1: Chemical Inventory

Chemical	Type	Quantity	Unit
Starbrite Tower Guard Aluminum Protectant	Cleaner	22	oz
Tempo Marine outboard and stern drive motor paint	Coating	12	oz
Thetford Aqua-Kem-Green Holding Tank Deodorant	Cleaner	8	oz
Tohatsu Engine Paint	Coating	12	oz
Volvo Penta Coolant VCS Ready Mixed	Other	1	gal
Volvo Penta Full Synthetic Gasoline Engine Oil	Lubricant	1	gal
Volvo Penta Full Synthetic Gasoline Engine Oil	Lubricant	1	qt
Volvo Penta Spray Enamel	Coating	12	oz
Volvo Penta Synthetic Gear Oil	Lubricant	1	qt
Rick's Master Marine: Work Bay 1			
3M Marine Ultra Performance Paste Wax	Cleaner	9.5	oz
4-Stroke Outboard Oil	Lubricant	5	qt
54 Marine RV Gel Wash	Cleaner	16	oz
ABC Dry Chemical Fire Extinguisher	Fire suppressant	1	N/A
Automatic transmission fluid	Lubricant	1	qt
Ballotini Impact Beads Potters	Abrasive	50	lb
BioSoy All Season Hydraulic Oil	Lubricant	32	qt
Coilhose Pneumatics Air Tool Lubricant ATL016	Lubricant	16	oz
Compressed Gas 75%Ar, 25%CO2	Gas	1	N/A
CRC Marine 6-56 Zero VOC Multipurpose Lubricant	Lubricant	11	oz
Full-Synthetic Gear Lube	Lubricant	1	qt
Gasoline	Fuel	5	gal
Gasoline	Fuel	50	L
Gear lube	Lubricant	20	oz
Hydraulic Steering Fluid	Lubricant	2	qt
Loctite 518 Flange Sealant	Adhesive	0.85	oz
Loctite 7649 Primer	Coating	4.5	oz

Table 1: Chemical Inventory

Chemical	Type	Quantity	Unit
Marine Grease 2-4-C with PTFE	Lubricant	8	oz
MaryKate Cleaning Detail Deck Cleaner	Cleaner	2.5	lb
MaryKate On & Off Fibergalss Hull & Bottom Cleaner	Cleaner	32	oz
Mercury Power Tune Engine Cleaner	Cleaner	13	oz
Motor oil (assorted)	Lubricant	2	qt
Motor oil (assorted)	Lubricant	5	gal
Permatex Copper Spray-A-Gasket	Adhesive	3	oz
Power Trim & Steering Fluid	Lubricant	8	oz
QuickSilver 3 Quickstor Fuel Stabilizer	Solvent	12	oz
Rapid Tap Cutting Fluid	Lubricant	1	pt
SeaFoam Motor Treatment	Solvent	16	oz
Sierra Spray Lithium White Grease	Lubricant	12	oz
Silver Grade Anti-Seize	Lubricant	4	oz
Silver Grade Anti-Seize	Lubricant	8	oz
Spray Paint Corrosion Guard	Coating	11	oz
Tannery Vintage Leather Cleaner	Cleaner	10	oz
TR Seapower Fiberglass Boat Cleaner & Wax	Cleaner	32	oz
Ultra Black RTV Silicone Gasket Maker	Adhesive	12	oz
Waste solvent collection	Other	55	gal
White Lithium Grease	Lubricant	8	oz
Rick's Master Marine: Work Bay 2			
2-Stroke Engine Oil	Lubricant	16	oz
2-Stroke Engine Oil	Lubricant	1	gal
3M Marine Adhesive Sealant 5200	Adhesive	10	oz
4-Stroke Motor Oil	Lubricant	1	gal
4-Stroke Motor Oil	Lubricant	3	qt

Table 1: Chemical Inventory

Chemical	Type	Quantity	Unit
ABC Dry Chemical Fire Extinguisher	Fire suppressant	1	N/A
Antifreeze coolant	Other	6	gal
Automatic transmission fluid	Lubricant	1	qt
Compressor oil	Lubricant	3	qt
Compressor oil	Lubricant	4	gal
Corrosion Guard Spray Paint	Coating	11	oz
CRC Heavy Duty Corrosion Inhibitor Spray Paint	Coating	10	oz
CRC Salt & Corrosion Terminator	Cleaner	22	oz
Dielectric Tune-Up Grease	Lubricant	8	oz
Duro Tub'n Sink Jelly Lime and Stain Remover	Cleaner	8	oz
Gas Mix	Fuel	12	oz
Gasoline	Fuel	5	gal
Gear case lube	Lubricant	33	oz
Gear lube	Lubricant	55	gal
Gear lube	Lubricant	1	qt
Gear oil	Lubricant	1	qt
Heavy Duty Synthetic Motor Oil	Lubricant	2	qt
Hydraulic jack oil	Lubricant	1	gal
Hydraulic steering fluid	Lubricant	1	qt
Lead acid Marine Batteries	Battery	4	N/A
Loctite Flange Sealant 5900	Adhesive	10	oz
Marine Gear Lube	Lubricant	2	qt
Mercury Quickare Fuel Treatment I	Solvent	12	oz
Motor oil (various)	Lubricant	55	gal
Motor il (assorted)	Lubricant	2	gal
Motor oil (assorted)	Lubricant	70	qt
Multi Purpose Grease	Lubricant	75	g

Table 1: Chemical Inventory

Chemical	Type	Quantity	Unit
Multi Purpose Grease	Lubricant	16	oz
Multi Purpose Grease	Lubricant	3	oz
Oil/lube pump buckets	Other	10	gal
Oxy-Acetylene Torch	Hardware	1	N/A
Pennzoil Multi Purpose Lubricant	Lubricant	12	oz
Perfect Seal Sealing Compound	Adhesive	16	oz
Power Trim & Steering Fluid	Lubricant	32	oz
Power Trim & Steering Fluid	Lubricant	16	oz
Power Trim & Steering Fluid	Lubricant	32	oz
Power Trim & Tilt Fluid	Lubricant	3	qt
Power Trim/Tilt and Steering Fluid	Lubricant	16	oz
Power Trim/Tilt and Steering Fluid	Lubricant	11	oz
Power Tune Engine Cleaner	Cleaner	13	oz
Rector Seal 5 Pipe Thread Sealant	Adhesive	8	oz
RTV Silicone Gasket Maker	Adhesive	18	oz
Simple Green Cleaner	Cleaner	22	oz
Spent antifreeze coolant	Other	55	gal
Spent liquid petroleum canisters	Other	30	lb
Spent motor oil	Lubricant	110	gal
Stay-Clean Flux	Solvent	4	oz
Storage Seal Fogging Oil	Solvent	120	oz
Transmission fluid	Lubricant	2	gal
Transmission fluid	Lubricant	3	gal
Used oil filters (assorted sizes)	Other	11	N/A
WD-40	Lubricant	24	oz
Weather strip cement	Adhesive	5	oz
South Park Tire Factory: Offices			

Table 1: Chemical Inventory

Chemical	Type	Quantity	Unit
Clear All Multi Purpose Cleaner	Cleaner	1	gal
Kleen Warrior All Purpose Cleaner Degreaser	Solvent	3	qt
Zep Cherry Bomb Hand Cleaner	Cleaner	2	gal
South Park Tire Factory: Service Bay 1			
ABC Dry Chemical Fire Extinguisher	Fire suppressant	1	N/A
Air filter oil	Lubricant	6.5	oz
Aluminum Anti-Seize	Lubricant	8	oz
Antifreeze coolant	Other	2	gal
Armor All Extreme Tire Shine	Cleaner	18	oz
Auto & Industrial Grease	Lubricant	42.3	oz
Automatic transmission fluid	Lubricant	1	gal
Automatic transmission fluid	Lubricant	1	qt
AutoZone Brake Cleaner	Cleaner	14	oz
Black Magic Bleche-Wite Tire Cleaner	Cleaner	32	oz
Black Magic Tire Wet Wax	Coating	8	oz
Blue Max Powder Truck and Car Wash 2816	Cleaner	5	gal
Blue Tire Slick Stock # 77164	Lubricant	5	gal
Brake fluid	Lubricant	1	qt
Brake fluid	Lubricant	1	gal
Castrol Limited Slip Gear Oil	Lubricant	1	qt
Comet with Bleach	Cleaner	14	oz
CRC Brakleen Brake Parts Cleaner	Cleaner	1	gal
CRC Freeze Off Super Penetrant	Solvent	11.5	oz
CRC Mass Air Flow Sensor Cleaner	Cleaner	22	oz
CRC Multipurpose Marine Grease	Lubricant	14	oz
CRC QD Electronic Cleaner	Cleaner	7.5	oz
Enamel paint	Coating	4	gal

Table 1: Chemical Inventory

Chemical	Type	Quantity	Unit
Engine Detailer CD-2	Cleaner	12.5	oz
Evapo-Rust Super Safe Rust Remover	Solvent	4	gal
Farwest Paint 607 Traffic Line Thinner	Solvent	1	gal
Gear oil	Lubricant	1	qt
Greased-Lightning Auto Pro Cleaner Degreaser	Cleaner	1	gal
High temperature circulating oil	Lubricant	1	gal
High temperature spray paint	Coating	33	oz
Interior spackling paste	Coating	32	oz
Lead acid car battery	Battery	5	N/A
Liquid propane gas	Fuel	4	gal
Lucas Engine Oil Stop Leak	Coating	1	qt
Lucas Heavy Duty Oil Stabilizer	Fuel	3	qt
Marvel Air Tool Oil	Lubricant	1	qt
Meguiar's Cleaner Wax	Coating	16	oz
Meguiar's Tire Shine	Cleaner	15	oz
Motor oil (assorted)	Lubricant	37	qt
Motor oil (assorted)	Lubricant	5	gal
Motor oil (assorted)	Lubricant	15	gal
Myers Tire Seal	Coating	1	gal
Napa Carb Choke and Throttle Body Cleaner	Cleaner	12	oz
No Touch Tire Care	Cleaner	42	oz
Pentosin CHF 11S Oil for Central Hydraulic System Power Steering	Lubricant	1	L
Power steering fluid	Lubricant	1	qt
Rema Tip Top 203 Cold Vulcanizing Fluid	Adhesive	1	gal
Rema Tip Top 71 Pre Buff Cleaner	Cleaner	1	pt
Rema Tip Top Bead Sealer 960	Coating	32	oz

Table 1: Chemical Inventory

Chemical	Type	Quantity	Unit
Rema Tip Top Special Cement BL	Adhesive	30	g
Rust-Oleum Undercoat Rubberized Paint	Coating	30	oz
Rust-Oleum Wheel Paint	Coating	11	oz
SelectSorb Automotive Oil Absorbent	Lubricant	4	lb
Shell SAE 10W-30 motor oil	Lubricant	170	gal
Shell SAE 5W-30 motor oil	Lubricant	170	gal
Spray paint (assorted)	Coating	44	oz
Starting fluid	Fuel	11	oz
STP Gas Treatment	Fuel	378	oz
Throttle Body and Air Intake Cleaner	Cleaner	24	oz
Touch Up Paint Solid Marker	Coating	4	oz
Turtle Wax Leather Cleaner and Conditioner	Coating	16	oz
Turtle Wax Zip Wax Car Wash	Cleaner	1	pt
Used lead wheel weights	Other	25	gal
Used oil filters	Lubricant	15	N/A
Waste motor oil	Lubricant	10	gal
Waste oil collector	Lubricant	4	gal
Window washing fluid	Cleaner	7	gal
Zep 2000 Heavy Duty Clear Penetrating Grease	Solvent	13	oz
Zep Flash Concrete Floor Cleaner	Cleaner	5	gal
South Park Tire Factory: Service Bay 2			
ABC Dry Chemical Fire Extinguisher	Fire suppressant	2	N/A
Acura All Wheel Drive Fluid	Lubricant	2	qt
Air compressor oil	Lubricant	2	qt
Antifreeze coolant	Other	6	gal
Automatic transmission fluid	Lubricant	2	gal
Automatic transmission fluid	Lubricant	25	qt

Table 1: Chemical Inventory

Chemical	Type	Quantity	Unit
AutoZone Brake Cleaner	Cleaner	56	oz
AutoZone R134a Refrigerant	Other	12	oz
Bar 84 11%CO2 1.6%CO 600ppmC3H3 Bal.N2	Lubricant	15	lb
Bar's Leaks Cooling System Treatment	Other	500	g
BlueMagic Upholstry Stain & Spot Lifter	Cleaner	8.7	oz
CRC Brakleen Brake Parts Cleaner	Solvent	2	gal
CRC Diesel Air Brake Antifreeze and Conditioner	Other	1	gal
CRC Disc Brake Quiet	Coating	4	oz
CRC Freeze Off Super Penetrant	Solvent	11.5	oz
Eagle One Velour & Fabric Guard	Cleaner	14	oz
Eagle One Was As-U-Dry	Cleaner	16	oz
Evapo-Rust Rust Remover	Solvent	2	oz
Gasoline	Fuel	1	gal
Gasoline	Fuel	25	L
GM Auto-Trak II Transfer Case Fluid	Lubricant	1	qt
Honda Dual Pump Fluid II	Lubricant	1	qt
Honda VTM-4 Differential Fluid	Lubricant	2	gal
Lead acid car battery	Battery	2	N/A
Liquid propane gas	Fuel	15	lb
Liquid propane gas	Fuel	16.4	oz
Lucas Power Steering Stop Leak	Coating	2	qt
Mopar Transfer Case Lubricant	Lubricant	1	qt
Motor oil (assorted)	Lubricant	1	qt
Multi Purpose Grease	Lubricant	28	oz
Multi Purpose Grease	Lubricant	6	oz
Multi Purpose Grease	Lubricant	4	lb
Multi Purpose Grease	Lubricant	20	gal

Table 1: Chemical Inventory

Chemical	Type	Quantity	Unit
Multi Purpose Grease	Lubricant	5	gal
Napa AW46 Hydraulic Oil	Lubricant	5	gal
OEM Premium Vacuum Pump Oil	Lubricant	296	ml
Oxy-Acetylene Torch	Fuel	1	N/A
PAG46 A/C Pro Refrigerant Oil	Lubricant	8	oz
Paint exterior latex	Coating	10	gal
Pennzoil Syndromesh Manual Transmission Fluid	Lubricant	4	qt
Permatex All Purpose Spray Adhesive	Adhesive	21	oz
Permatex Plastic Welder	Adhesive	1.68	oz
Permatex Threadlocker Red	Coating	1.22	oz
Permatex Ultra Black RTV Silicone Gasket Maker	Coating	6	oz
Power steering fluid	Lubricant	36	oz
Power steering fluid	Lubricant	2	qt
Prestone Radiator Flush & Cleaner	Cleaner	22	oz
Prestone Synthetic Brake Fluid	Lubricant	20	oz
Prestone Synthetic Brake Fluid	Lubricant	2	gal
RainX Original	Coating	16	oz
Red-n Tacky #2 All Purpose Grease with Anti-Seize	Lubricant	14	oz
Spray paint (assorted)	Coating	22	oz
Starting fluid	Fuel	11	oz
Synthetic Gear Lubricant	Lubricant	2	qt
Synthetic Gear Oil	Lubricant	2	qt
Tetrachloroethylene (TCE)	Solvent	3	gal
Waste motor oil	Lubricant	5	gal
Zone Marking Coating Paint	Coating	1	gal
South Park Tire Factory: Storefront			
ABC Dry Chemical Fire Extinguisher	Fire suppressant	1	N/A

Table 1: Chemical Inventory

Chemical	Type	Quantity	Unit
Lead acid car battery (assorted sizes)	Battery	28	N/A
South Park Tire Factory: Tire Storage Area			
ABC Dry Chemical Fire Extinguisher	Fire suppressant	1	N/A
Fluorescent bulbs, 60 in	Other	4	N/A
Kool Green Antifreeze Coolant	Other	55	gal
Liquid propane gas	Fuel	15	lb
MultiMist Brake Cleaning Solution	Cleaner	30	gal
Paint (assorted, exterior acrylic, enamel, striping)	Coating	8	gal
Paint (assorted; exterior acrylic, enamel, striping)	Coating	10	gal
Spent antifreeze	Other	165	gal
Spray striping paint	Solvent	36	oz
Used oil filters	Lubricant	6	gal
Waste oil storage	Lubricant	275	gal
Zep Commercial High-Traffic Floor Polish	Coating	5	gal

APPENDIX A.9

Boat Wash Water and StormwateRx™ System Schematics

2.d. pg. 1-2

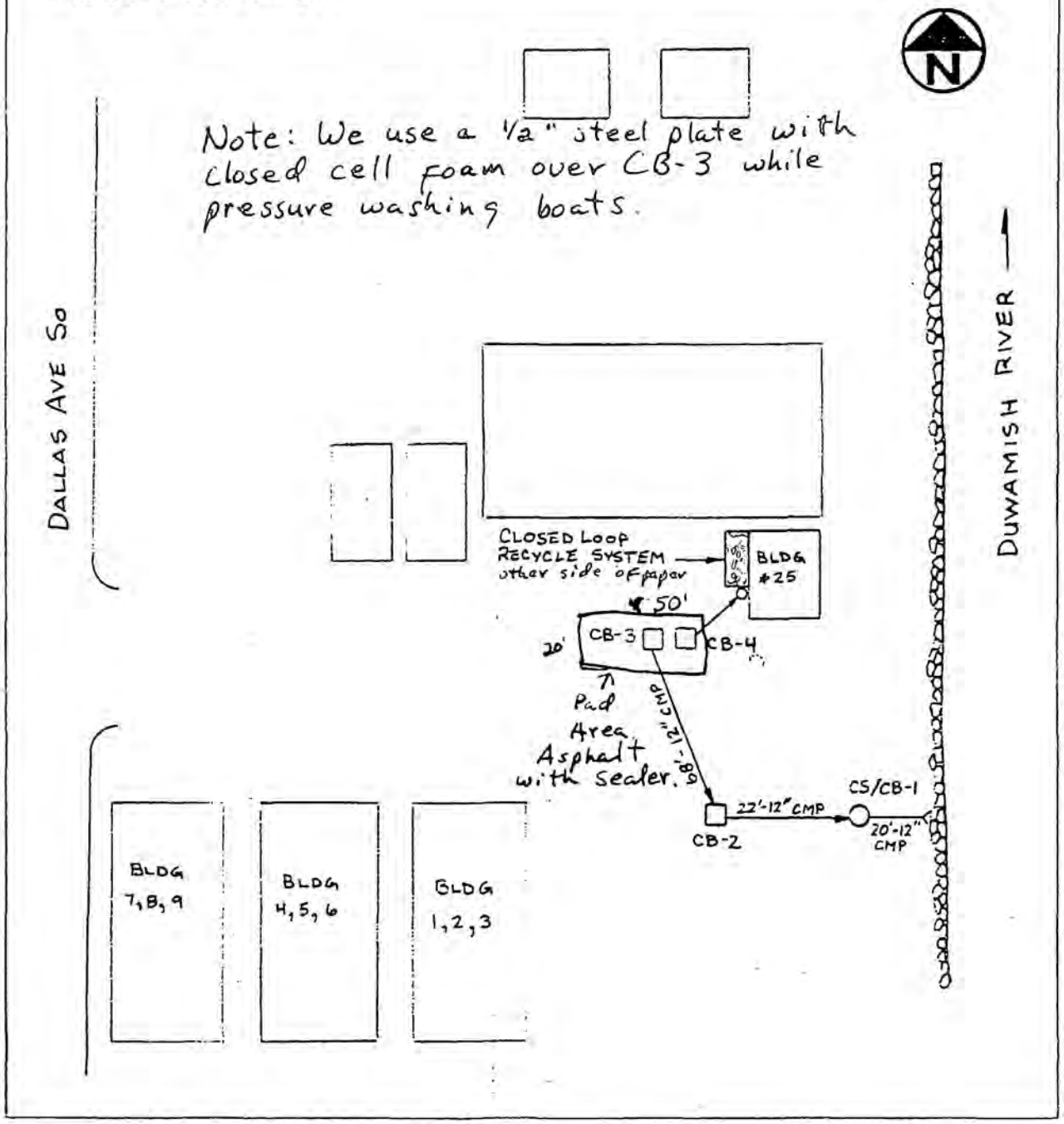
Boatyard Wastewater Treatment: Final Plans and Specifications
NPDES Boatyard Permit # WAG-030004-5

12.3.81
9-14-93

King County
Surface Water
Management
Everyone lives downstream

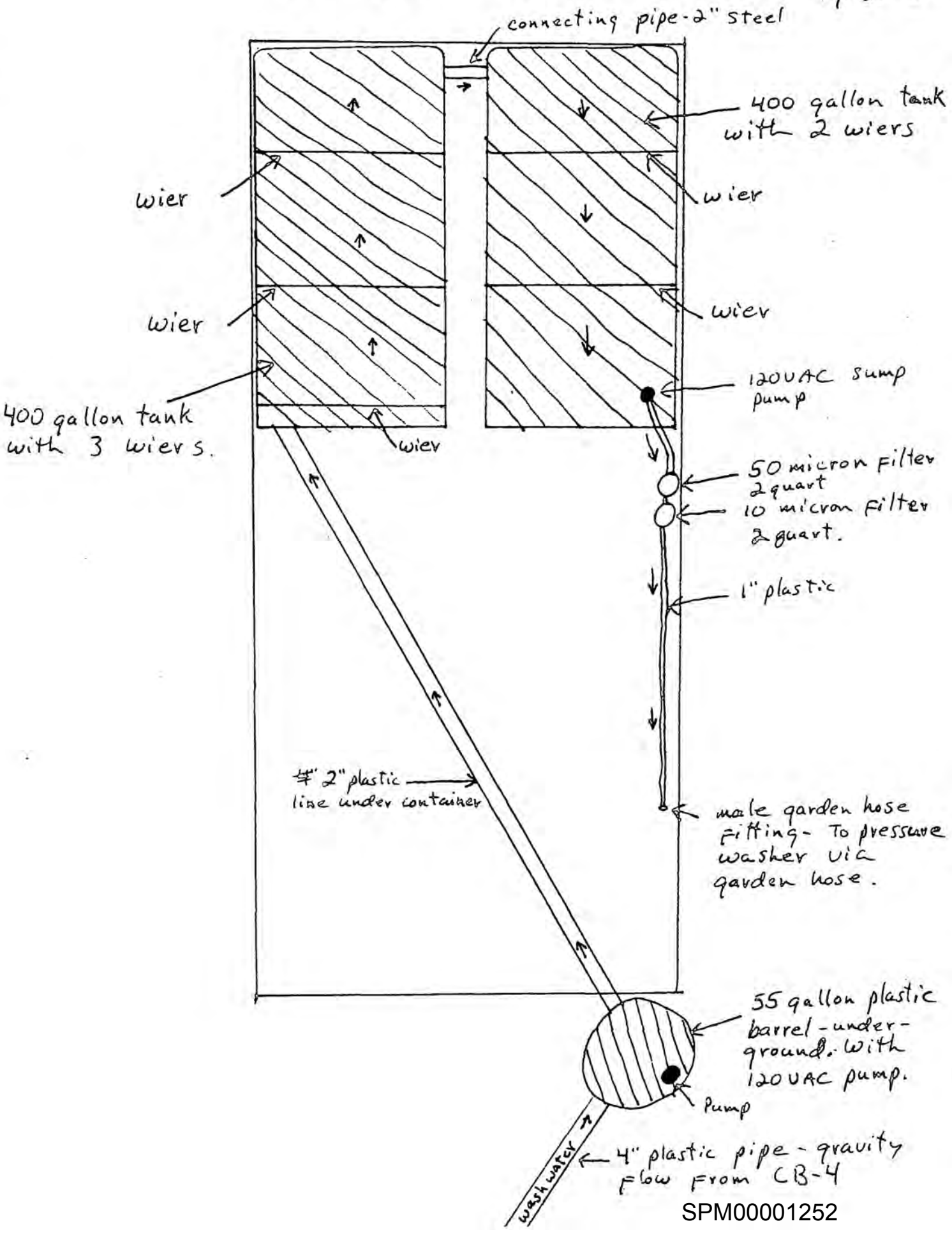
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BASIN DUWAMISH
TYPE OWS
DATE 9-14-93
INITIALS - MAM/DP

TAX LOT # 0001600001



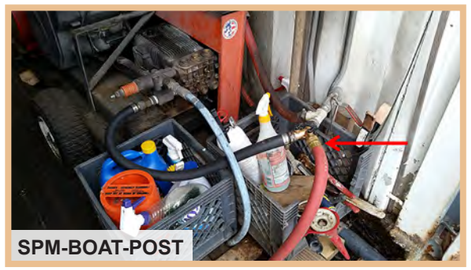
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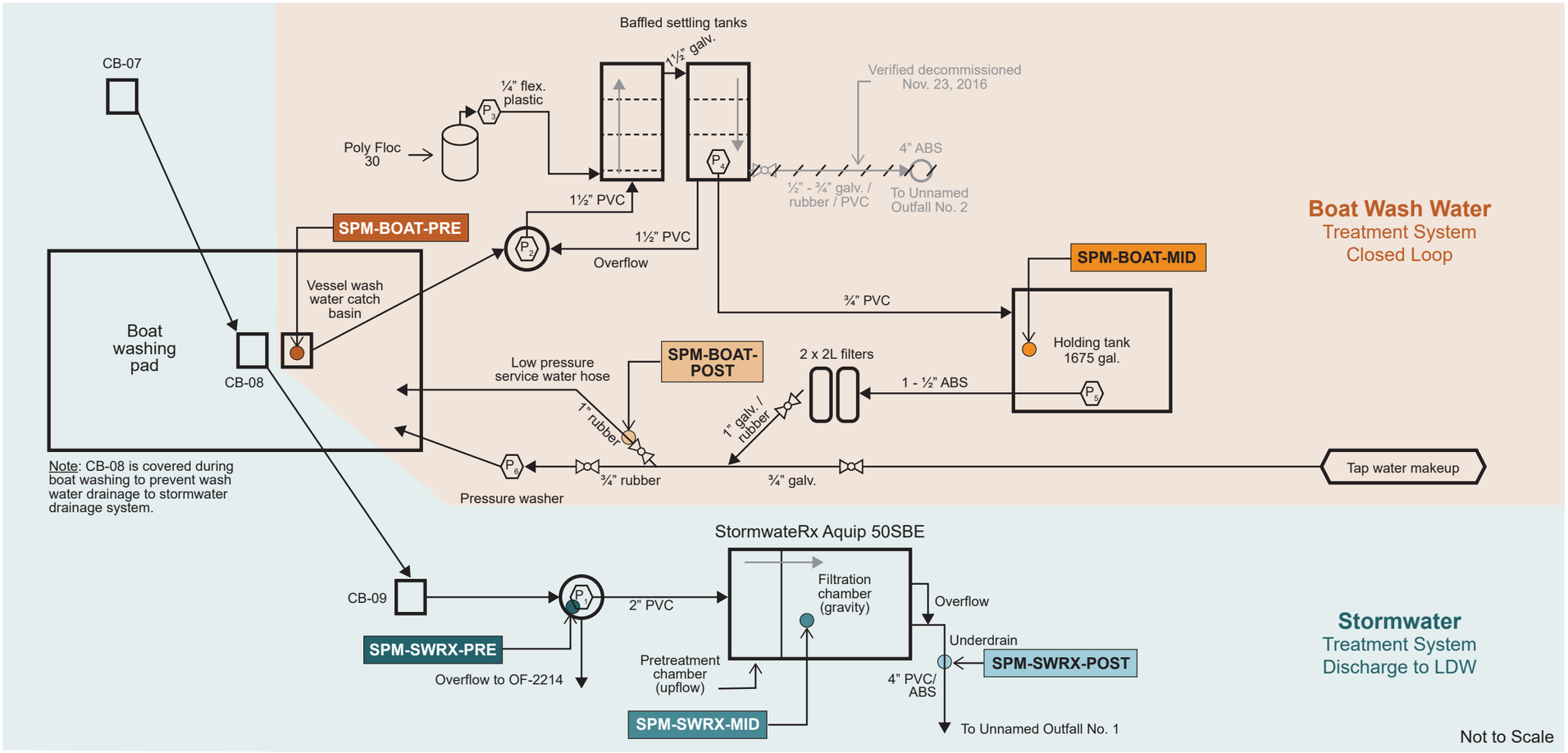
20' Steel Container











CB = Catch basin

Legend:

- Sampling location
- Ball valve
- Pump
- Pump vault





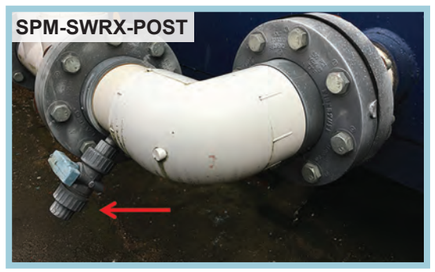


FIGURE 3

PROCESS FLOW DIAGRAM AND SAMPLING LOCATIONS FOR WATER TREATMENT SYSTEMS

KARR TUTTLE CAMPBELL
SOUTH PARK MARINA
STORMWATER AND BOAT WASH WATER SYSTEMS EVALUATION

TIG environmental™
INVESTIGATIONS • FORENSICS • REMEDIATION

G:\GIS\SPML\SouthParkMarina\TreatmentSystemEvaluation\WTSEDA_WTSP Flow Diagram_v6.ai Date modified: 1/16/2018 Modified by: jfredenburg

APPENDIX A.10

2022 Topographical Survey As-Builts

BOUNDARY / TOPOGRAPHIC SURVEY

NORTHWEST CORNER SECTION 33, T. 24 N., RGE. 5 E.
FND "+" ON 3" BRASS DISC IN CONC MON IN CASE,
DN. 0.95'
(2/2/2017)

SOUTH PARK BRIDGE

SHEET 2

SHEET 3

PORT OF SEATTLE DUWAMISH COMMERCIAL WATERWAY #1

CITY OF TUKWILA
KING COUNTY

W LINE SW 1/4 OF NW 1/4 SEC. 33

PT: 32+41.70

FND PUNCH ON 3" BRASS CAP, DN. 0.75' IN CASE STAMPED LS#29292 (10/10/2016) PC: 10+80.67

FOUND 5/8" REBAR W/ CAP "PLS 7589" N 2.0' X W 0.4'

EP: 14+07.22

66.92'

N47°51'54"W 719.78'

257.06'

395.81'

PER ROS #2005121900013

ROS #20110128900001

SPB: 30+29.05, 14.78 RT

N47°51'36"W

SPB: 30+67.39 ORR: 114.52.98

FND PUNCH ON 3" BRASS K.C. MON LS#29292, DN. 0.75' IN CASE(10/10/2016) ORR: 10+00.00 BP TBM "A" EL = 14.43'

FND PUNCH ON 3" K.C. BRASS CAP, DN. 0.7' IN CASE (10/10/2016) PRC: 12+37.15

R=604.69'

EP: 13+75.01

PER KING COUNTY DEPT OF TRANSPORTATION SOUTH PARK BRIDGE #3179 REPLACEMENT RIGHT OF WAY PLANS 1/10/2011

S ORR ST

N65°41'42"W

PT: 13+61.04

SPB LINE

AFN #2185600070

N13°05'57"E 379.21'

BOAT ACCESS LINE

97.74'

AFN #0001600001

AFN #0001600044

N31°54'59"E 149.99'

CALC'D DEED LINE PER DEED #9302181744

FND 5/8" REBAR AND CAP, LS#29537 (12/2/16)

S62°49'47"E 84.61'

52.40'

ROS #20151014900011

FND LEAD AND TACK W/WASHER, LS#22688 (12/2/16)

SET AXIS MAG NAIL & WASHER TBM "B" EL = 19.66'

N68°52'35"W 230.56'

N00°09'27"E 32.13'

109.09'

N68°52'35"W 348.30'

239.21'

N68°52'35"W 364.37'

AFN #2185600025

BOAT ACCESS: 10+00.00 BP

SPB: 26+37.52, 93.36 RT

DALLAS 10+39.09 AP

DALLAS AVE S

PC: 27+09.35

AP: 26+70.00

N01°45'57"E

S64°47'26"E 86.01'

S68°10'00"E

S89°52'28"E 43.55'

36.81'

5.28'

DALLAS: 10+00.00 0.73RT
DALLAS-E: 10+00.00

FND PUNCH ON 3" BRASS K.C. MON DN. 0.7' IN CASE STAMPED LS#29292-2012 (10/10/2016) SPB 26+42.46

DALLAS-E: 11+23.18 EP

INTX MIC (HELD) FND PUNCH ON 3" BRASS K.C. MON DN. 0.1' IN CASE LS#29292-2012 (10/10/2016) SPB 26+09.59, 5.40 LT

N03°17'47"E

FND PUNCH ON 3" BRASS K.C. CAP, DN. 0.15' IN CASE STAMPED LS#29292 (10/10/2016)

AP: 25+30.00

N01°45'40"E (BASIS OF BEARING) 310.17'

FND PUNCH ON 3" ALUM WSDOT CAP "2008/SOUTH PARK" DN. 0.7' IN CASE #7310 PUBLISHED ELEV=18.278'(USFt) NAVD 88 (10/10/2016)

14TH AVE S

S SULLIVAN ST

FND 2" DOMED C.O.S. BRASS CAP 3780/3404 (10/10/2016)

S CLOVERDALE ST

S88°39'46"E 497.86'

INTX MIC FND INVERTED NAIL ON CONC, DN. 1.0 IN CASE (10/10/2016) SPB 22+99.56, 3.26 LT

SPB: 23+00.00 BP

SHEET 4

SHEET 5

REPLAT BLKS 13 & 14 EAST SOUTH PARK VOL 16, PG 69

16TH AVE S

S01°15'32"W 180.43'

S01°15'32"W 309.52'

17TH AVE S

N01°15'27"E 361.44'

S88°40'33"E 275.00'

S DONOVAN ST

DATUM

HORIZONTAL DATUM:
NAD 83/11
WASHINGTON STATE PLANE ZONE: NORTH
COMBINED SCALE FACTOR 0.99999808

WSDOT MONUMENT DESIGNATION: GP17099-222
MONUMENT ID: 2988
BRASS DISK LEVEL WITH CONCRETE BRIDGE DECK SURFACE
PUBLISHED COORDINATES
NORTHING: 193093.813 (USFt)
EASTING: 1273881.002 (USFt)

VERTICAL DATUM: NAVD 88

WSDOT MONUMENT DESIGNATION: SOUTH PARK
MONUMENT ID: 7310
ALUM DISK IN WSDOT CASE AND COVER

ELEVATION: 18.278 (USFt)

TBM "A": FOUND PUNCH ON 3" BRASS K.C. MONUMENT LS#29292 IN CASE

ELEVATION: 14.43 (USFt)

TBM "B": SET AXIS MAG NAIL & WASHER

ELEVATION: 19.66 (USFt)

GRAPHIC SCALE

60' 30' 0 60' 120'

1" = 60'
1' CONTOURS

REFERENCES

RECORD OF SURVEY BY KPFF CONSULTING ENGINEERS, RECORDED UNDER AUDITOR'S FILE NO. 20110128900001, RECORDS OF KING COUNTY, WASHINGTON.

RECORD OF SURVEY BY DAVID EVANS AND ASSOC., RECORDED UNDER AUDITOR'S FILE NO. 20051219900013, RECORDS OF KING COUNTY, WASHINGTON.

INTERIOR PARCEL LINES ARE PER KING COUNTY'S PARCEL DATA.

HISTORICAL PROPERTY OWNERSHIP REPORT BY SECURITY FIRST TITLE RESCOURCE FOR ENVIROSITE CORPORTATION, SEPT 16, 2016

EQUIPMENT NOTES

PRIMARY CONTROL POINTS AND ACCESSIBLE MONUMENT POSITIONS WERE FIELD MEASURED UTILIZING GLOBAL POSITIONING SYSTEM (GPS) SURVEY TECHNIQUES USING LEICA SYSTEM 1200 EQUIPMENT. MONUMENT POSITIONS THAT WERE NOT DIRECTLY OBSERVED USING GPS SURVEY TECHNIQUES WERE TIED INTO THE CONTROL POINTS UTILIZING LEICA ELECTRONIC 1201 TOTAL STATIONS FOR THE MEASUREMENT OF BOTH ANGLES AND DISTANCES. THIS SURVEY MEETS OR EXCEEDS THE STANDARDS SET BY WACS 332-130-080/090.

UTILITY NOTES

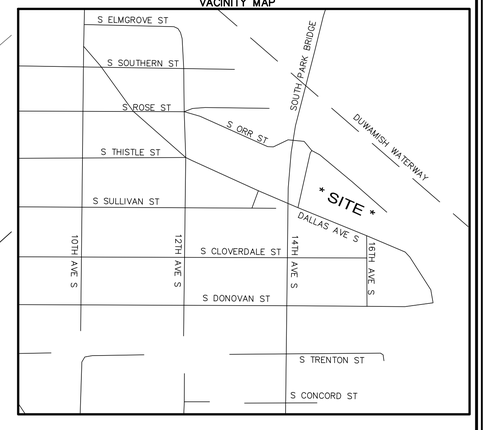
SANITARY SEWER AND STORM DRAINAGE FACILITIES HAVE BEEN ASBUILT THROUGH FIELD MEASUREMENTS OF THE LOCATION OF THE ACCESS STRUCTURES, THE TOP ELEVATION OF THE STRUCTURES, AND THE INVERT ELEVATIONS OF ANY PIPES ENTERING OR LEAVING THE STRUCTURES. IT IS STANDARD PRACTICE TO SHOW THE PIPES CONNECTING THESE STRUCTURES AS STRAIGHT LINES. THIS IS ONLY AN ASSUMPTION AND THE ACTUAL LOCATION OF THE PIPING MUST BE VERIFIED IN THE FIELD BY THE CONSTRUCTION CONTRACTOR PRIOR TO ANY CONSTRUCTION.

UTILITY LOCATIONS SHOWN HEREON ARE BASED UPON ASBUILT FIELD LOCATION OF EXISTING STRUCTURES. FIELD LOCATION OF UTILITIES BASED ON LOCATOR PAINT MARKINGS AND LOCATIONS BASED ON UTILITY MAPS FROM CITY AND UTILITY PURVEYOR'S DRAWINGS.

LEGEND

- ⊕ FOUND MONUMENT IN CASE
- ⊗ FOUND TACK IN LEAD
- ○ FOUND REBAR AND CAP AS NOTED
- ⊠ SET PK/MAG NAIL

VACINITY MAP



NE 1/4, SEC. 32, NW 1/4, SEC. 33, TWP. 24 N., RGE 4 E., W.M.
CITY OF SEATTLE, KING COUNTY, WASHINGTON

REV#	DESCRIPTION OF REVISION	DATE	BY
#1	UPDATE MAP AT SOUTHEAST OF SITE	7/5/2022	JRP
#2			
#3			
#4			
#5			
#6			
#7			

BRUCE E. BAILEY
STATE OF WASHINGTON
18479
REGISTERED
PROFESSIONAL LAND SURVEYOR

BOUNDARY & TOPOGRAPHIC SURVEY

OF

SOUTH PARK MARINA

8604 DALLAS AVE. S., SEATTLE, WA. 98108

FOR
THE INTELLIGENCE GROUP, L.L.C.

Axis Survey & Mapping
15241 NE 90TH ST
REDMOND, WA 98052
TEL 425.823-5700
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JOB NO.	DATE
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DRAWN BY	CHECKED BY
TJO/ARH/MWF	BEB
SCALE	SHEET
1"=60'	1 OF 5

TOPOGRAPHIC SURVEY

GRAPHIC SCALE

20' 10' 0 20' 40'

1" = 20'

1' CONTOURS

DATUM

HORIZONTAL DATUM:
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WASHINGTON STATE PLANE ZONE: NORTH
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ALUM DISK IN WSDOT CASE AND COVER

ELEVATION: 18.278 (USFt)

LEGEND

- FOUND MONUMENT IN CASE
- FOUND TACK IN LEAD
- FOUND REBAR AND CAP AS NOTED
- SET PK/MAG NAIL
- SS SANITARY SEWER CLEANOUT
- 4" SANITARY SEWER MANHOLE
- CATCH BASIN
- SD STORM DRAIN CLEANOUT
- STORM DRAIN MANHOLE
- YARD DRAIN – NON CONFORMING SIZE/LID
- CULVERT
- FIRE DEPARTMENT CONNECTOR
- FIRE HYDRANT
- HOSE BIB
- ICV IRRIGATION CONTROL VALVE
- WATER METER
- WATER VALVE
- POWER STUB
- POWER JUNCTION BOX
- POWER METER
- YARD LIGHT
- POWER TOWER
- TELECOMMUNICATIONS RISER
- CABLE TV RISER
- GUY ANCHOR
- UTILITY POLE W/ LIGHT
- UTILITY POLE W/ LIGHT & UNDERGROUND CONDUIT
- UTILITY POLE W/ LIGHT, UNDERGROUND CONDUIT & TRANSFORMER
- POWER POLE W/UNDERGROUND CONDUIT
- POWER POLE W/ TRANSFORMER & UNDERGROUND CONDUIT
- UTILITY POLE
- GAS METER
- GAS VALVE
- MAIL BOX
- SIGN
- PST POST
- BOLLARD
- 12"B BIRCH
- 12"C CEDAR
- 12"D DECIDUOUS
- HEDGE
- DRIPLINE

- SS SANITARY SEWER LINE
- SD STORM DRAIN LINE
- D DITCH LINE
- OP OVERHEAD POWER LINE
- P POWER LINE
- T TELECOMMUNICATIONS LINE
- C CABLE TV LINE
- W WATER LINE
- G GAS LINE
- CHAIN LINK FENCE LINE
- WOOD FENCE LINE
- WIRE FENCE LINE
- EXISTING RETAINING WALL
- ROCKERY

CONCRETE · ASPHALT · BUILDINGS · GRAVEL · BRICK

NORTHWEST CORNER SECTION 33, T. 24 N., RGE. 5 E.
FND '+' ON 3" BRASS DISC IN CONC MON IN CASE,
DN. 0.95'
(2/2/2017)

S00°05'22"W 311.16'

CITY OF TUKWILA
KING COUNTY

PORT OF SEATTLE DUWAMISH COMMERCIAL WATERWAY #1

W LINE - SW 1/4 OF NW 1/4 - SEC 33

MATCHLINE

ECO-BLOCK WALL

2.5'WIDE ELEVATED GRATED RAMP W/HANDRAIL ATOP 2.7'WIDE CURB

N. END

LARGE ROCK RIP-RAP

CULV 24"CONC IE = 8.82' W/SLEEVE OF-2215

3.0 TALL DBL RAIL WOOD FENCE

SE END

FOUND 5/8" REBAR W/ CAP 'PLS 7589' N 2.0' X W 0.4'

4"DIA. METAL BOLLARD FILLED WITH CONCRETE 3.1'TALL

SDMH #7379
RIM 14.47'
24" CONC IE 8.96 (W)
24" CONC IE 9.24 (S)

SD

EP: 14+07.22

SPB: 30+29.01
144.78' RT

66.92'

N. END 5'CLFNC W/CONC BASE

1.0" WOOD PILING

ECO-BLOCK WALL

3"x3" METAL BOLLARD 4.2' TALL

257.06'

N47°51'54"W 719.78'

WALL MOUNTED PM & 3-EJB'S

4'CLFNC TO NW

NW'LY END OF SMALLER ROCK-RIP-RAP

1.0' WOOD PILING

GATED ENTRANCE GANGWAY TO DOCKS W/7'x8' AWNING

6 - 1.5" CONDUIT BOX BELOW DOCK

MATCHLINE

NE 1/4, SEC. 32, NW 1/4, SEC. 33, TWP. 24 N., RGE 4 E., W.M.
CITY OF SEATTLE, KING COUNTY, WASHINGTON

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OF

SOUTH PARK MARINA

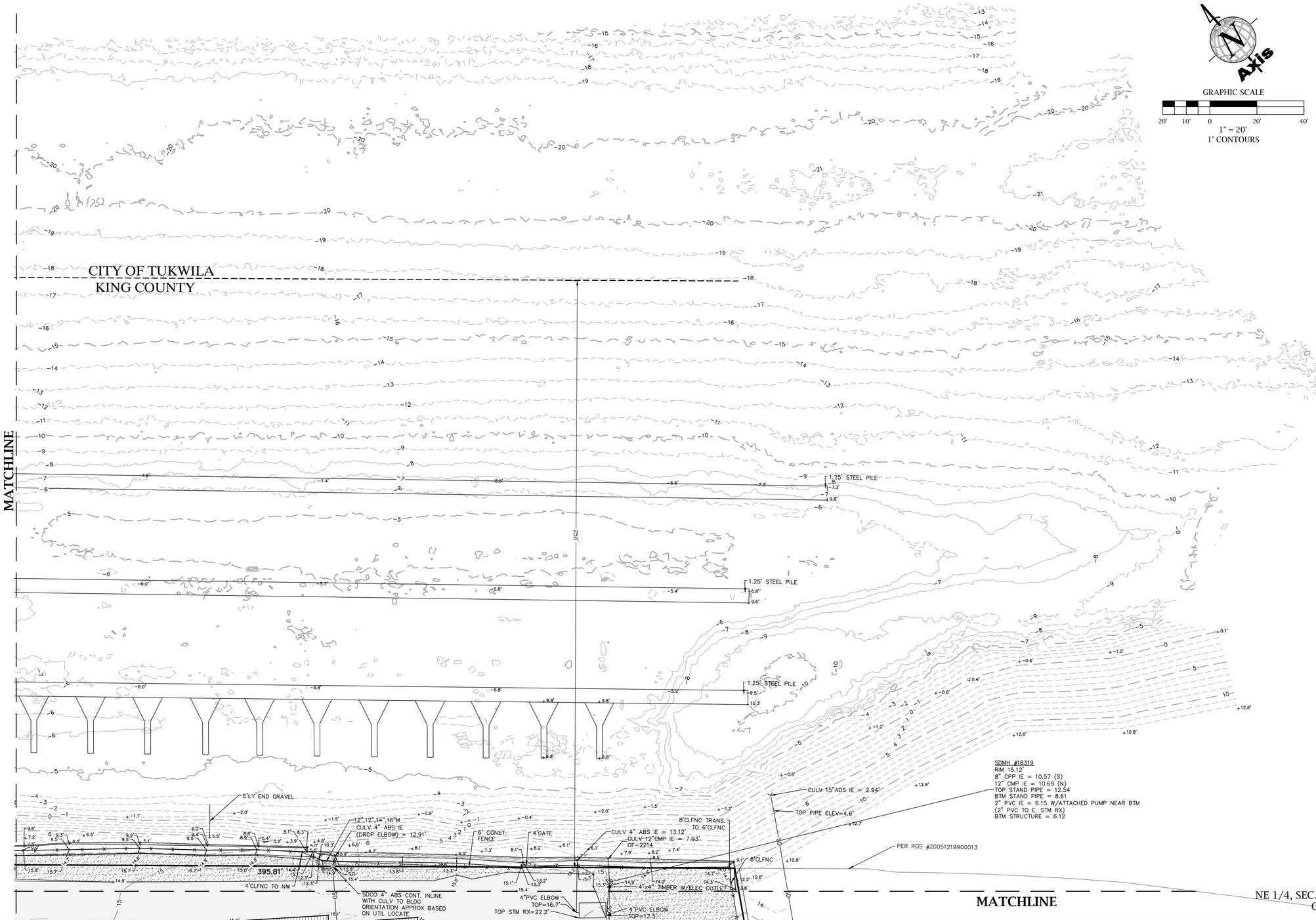
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TJO/ARH/MWF	BEB
SCALE	SHEET
1"=20'	2 OF 5

TOPOGRAPHIC SURVEY



GRAPHIC SCALE

20' 10' 0 20' 40'

1" = 20'

1' CONTOURS

DATUM

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ALUM DISK IN WSDOT CASE AND COVER

ELEVATION: 18.278 (USFt)

LEGEND

- FOUND MONUMENT IN CASE
- FOUND TACK IN LEAD
- FOUND REBAR AND CAP AS NOTED
- SET PK/MAG NAIL
- SS SANITARY SEWER CLEANOUT
- 4" SANITARY SEWER MANHOLE
- CATCH BASIN
- SD STORM DRAIN CLEANOUT
- STORM DRAIN MANHOLE
- YARD DRAIN – NON CONFORMING SIZE/LID
- CULVERT
- FIRE DEPARTMENT CONNECTOR
- FIRE HYDRANT
- HOSE BIB
- ICV IRRIGATION CONTROL VALVE
- WATER METER
- WATER VALVE
- POWER STUB
- POWER JUNCTION BOX
- POWER METER
- YARD LIGHT
- POWER TOWER
- TELECOMMUNICATIONS RISER
- CABLE TV RISER
- GUY ANCHOR
- UTILITY POLE W/ LIGHT
- UTILITY POLE W/ LIGHT & UNDERGROUND CONDUIT
- UTILITY POLE W/ LIGHT, UNDERGROUND CONDUIT & TRANSFORMER
- POWER POLE W/UNDERGROUND CONDUIT
- POWER POLE W/ TRANSFORMER & UNDERGROUND CONDUIT
- UTILITY POLE
- GAS METER
- GAS VALVE
- MAIL BOX
- SIGN
- •PST POST
- BOLLARD
- 12"B BIRCH
- 12"C CEDAR
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- SS SANITARY SEWER LINE
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- G GAS LINE
- X X X CHAIN LINK FENCE LINE
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- WIRE FENCE LINE
- EXISTING RETAINING WALL
- ROCKERY

CONCRETE
ASPHALT
BUILDINGS
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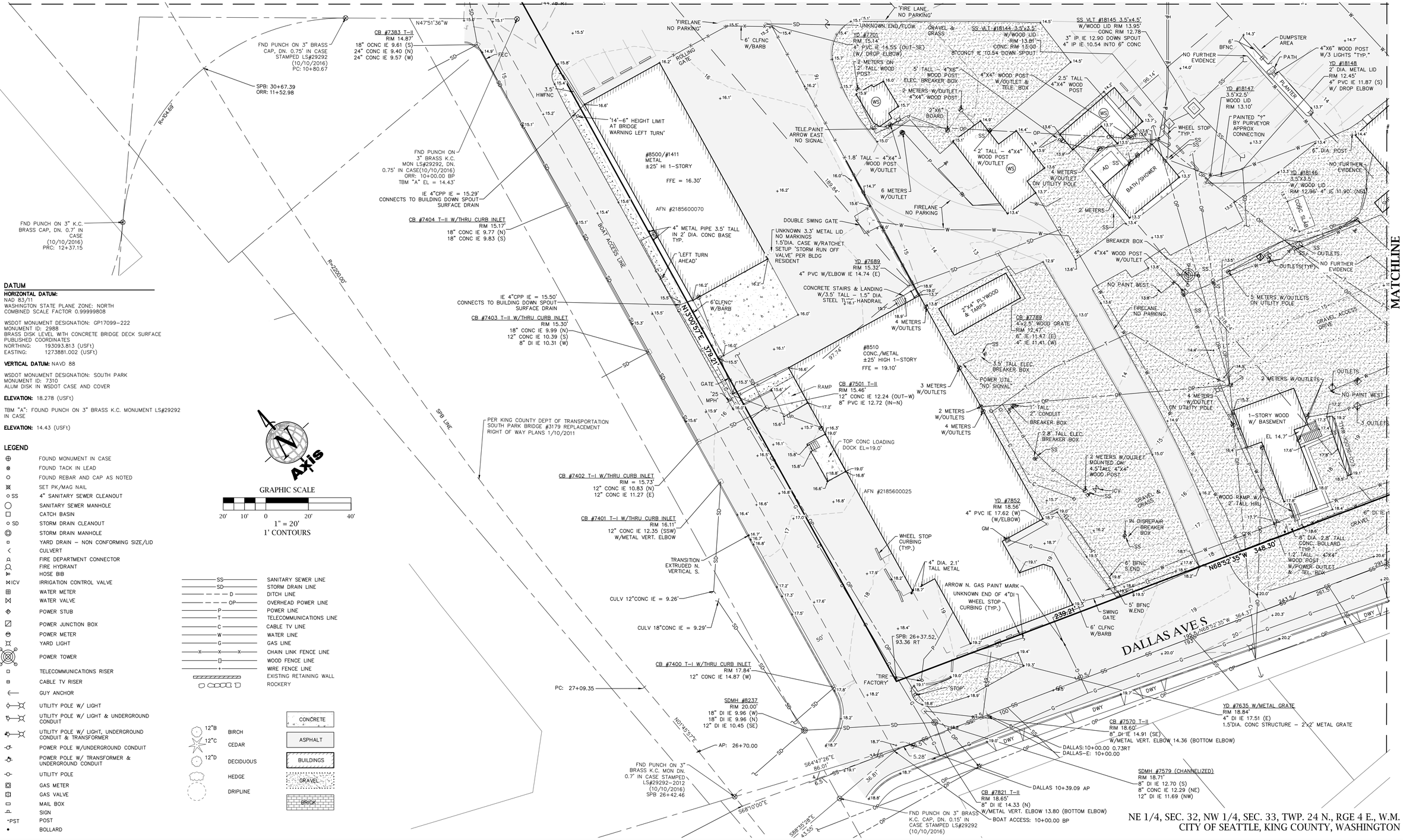
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SCALE	SHEET
1"=20'	3 OF 5

TOPOGRAPHIC SURVEY



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ELEVATION: 18.278 (USFt)

TBM "A": FOUND PUNCH ON 3" BRASS K.C. MONUMENT LS#29292 IN CASE

ELEVATION: 14.43 (USFt)

LEGEND

⊕	FOUND MONUMENT IN CASE
⊗	FOUND TACK IN LEAD
○	FOUND REBAR AND CAP AS NOTED
⊠	SET PK/MAG NAIL
○ SS	4" SANITARY SEWER CLEANOUT
◯	SANITARY SEWER MANHOLE
□	CATCH BASIN
○ SD	STORM DRAIN CLEANOUT
ⓜ	STORM DRAIN MANHOLE
▫	YARD DRAIN - NON CONFORMING SIZE/LID
<	CULVERT
	FIRE DEPARTMENT CONNECTOR
	FIRE HYDRANT
	HOSE BIB
⋈ICV	IRRIGATION CONTROL VALVE
⊞	WATER METER
⋈	WATER VALVE
	POWER STUB
◪	POWER JUNCTION BOX
	POWER METER
	YARD LIGHT
	POWER TOWER
▫	TELECOMMUNICATIONS RISER
⊟	CABLE TV RISER
⟵	GUY ANCHOR
	UTILITY POLE W/ LIGHT
	UTILITY POLE W/ LIGHT & UNDERGROUND CONDUIT
	UTILITY POLE W/ LIGHT, UNDERGROUND CONDUIT & TRANSFORMER
	POWER POLE W/UNDERGROUND CONDUIT
	POWER POLE W/ TRANSFORMER & UNDERGROUND CONDUIT
	UTILITY POLE
▨	GAS METER
⊡	GAS VALVE
▭	MAIL BOX
⊥	SIGN
•PST	POST
•	BOLLARD

NE 1/4, SEC. 32, NW 1/4, SEC. 33, TWP. 24 N., RGE 4 E., W.M.
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BRUCE E. BAILEY STATE OF WASHINGTON 38479 REGISTERED PROFESSIONAL LAND SURVEYOR

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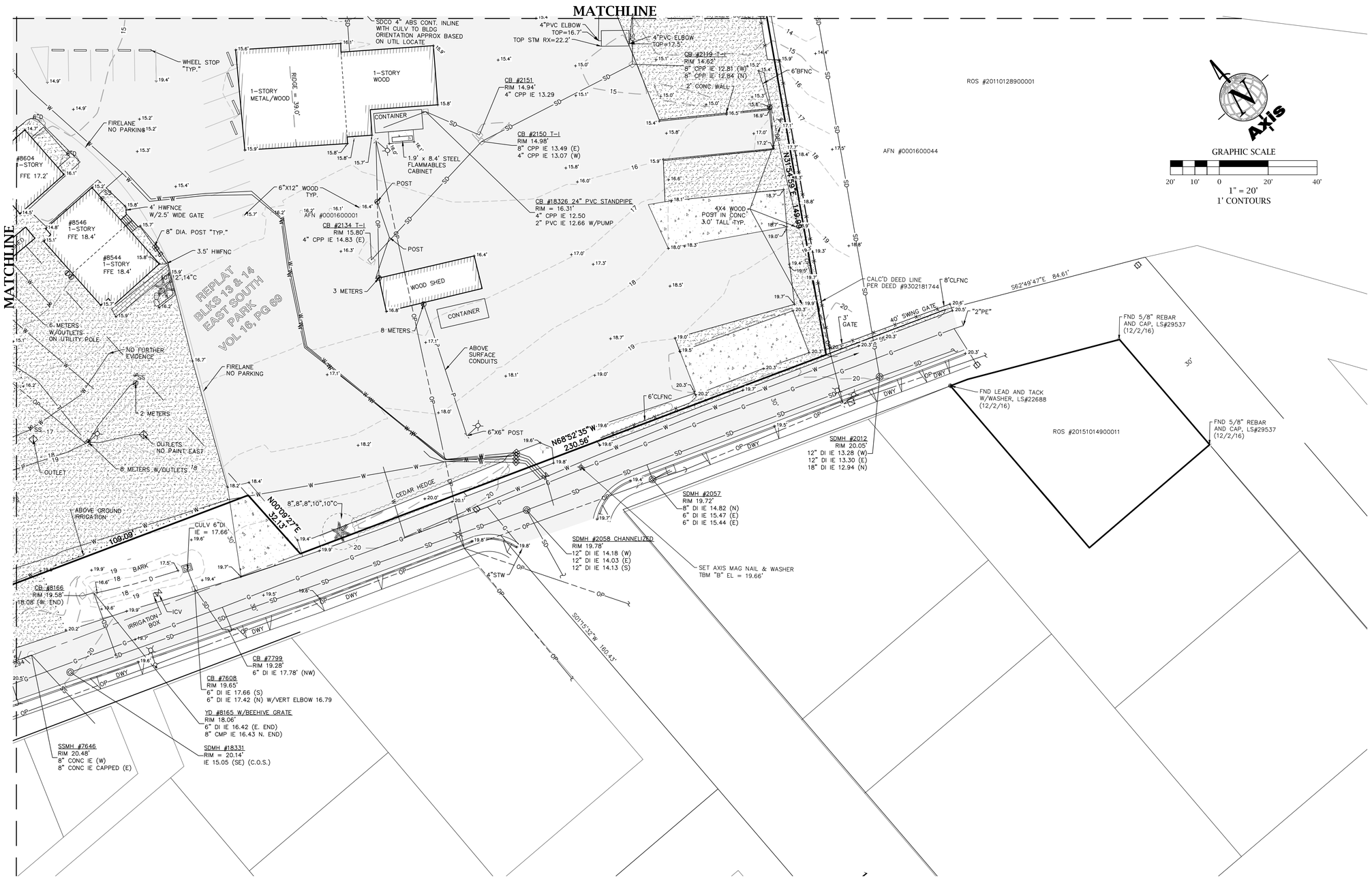
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1"=20'	4 OF 5

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ELEVATION: 18.278 (USFt)

TBM "B": SET AXIS MAG NAIL & WASHER

ELEVATION: 19.66 (USFt)

LEGEND

- FOUND MONUMENT IN CASE
- FOUND TACK IN LEAD
- FOUND REBAR AND CAP AS NOTED
- SET PK/MAG NAIL
- SANITARY SEWER CLEANOUT
- 4" SANITARY SEWER MANHOLE
- CATCH BASIN
- STORM DRAIN CLEANOUT
- STORM DRAIN MANHOLE
- YARD DRAIN – NON CONFORMING SIZE/LID
- CULVERT
- FIRE DEPARTMENT CONNECTOR
- FIRE HYDRANT
- HOSE BIB
- ICV IRRIGATION CONTROL VALVE
- WATER METER
- WATER VALVE
- POWER STUB
- POWER JUNCTION BOX
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- GUY ANCHOR
- UTILITY POLE W/ LIGHT
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- UTILITY POLE W/ LIGHT, UNDERGROUND CONDUIT & TRANSFORMER
- POWER POLE W/UNDERGROUND CONDUIT
- POWER POLE W/ TRANSFORMER & UNDERGROUND CONDUIT
- UTILITY POLE
- GAS METER
- GAS VALVE
- MAIL BOX
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- POST
- BOLLARD
- 12"B BIRCH
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TJO/ARH/MWF	BEB
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1"=20'	5 OF 5

APPENDIX A.11

Results of Drainage Pathway Investigation (2019) and 2024 Camera Survey

TO:	Guy Crow	Tom Adams
	South Park Marina Limited Partnership	Karr Tuttle Campbell
FROM:	Nicholas Schlagenhaft, Audrey Hackett, and Philip Spadaro TIG Environmental 1200 Westlake Ave N, Suite 809, Seattle, WA 98109	
SUBJECT:	**Results of Drainage Pathway Investigation**	
DATE:	January 16, 2019	

Introduction

TIG Environmental (TIG) has prepared this memorandum to provide South Park Marina Limited Partnership the results of the 2018 Drainage Pathway Investigation at the South Park Marina Site (the Site) (Figure 1). TIG conducted this investigation to confirm stormwater drainage discharge points and to delineate infrastructural pathways at the Site via dye tracing. TIG also used the results of this investigation to quantify concentrations of metals in runoff from roofs at the Site, in anticipation of a future remedial investigation (RI).

Since 2015, TIG has performed a variety of activities to characterize subsurface drainage infrastructure at the Site. Findings from these activities have resulted in the identification of nine stormwater drainage network pathway data gaps, represented by unknown discharge points for stormwater entering catch basins and roof drains at the Site (Table 1). Because the Site is the focus of the Washington Department of Ecology's (Ecology's) ongoing source control investigations, it is important to have a complete understanding of how the Site drains to the Lower Duwamish Waterway (LDW). Additionally, the Site is covered by a National Pollutant Discharge Elimination System (NPDES) permit. The inconclusive extent of coverage of the permit at the Site requires an understanding of the stormwater drainage network pathways and potential sources of contamination associated with drainage infrastructure across the entire footprint of the South Park Marina property, including the portions of the property occupied by tenants Rick's Master Marine and the South Park Tire Factory.

TIG investigated nine stormwater drainage network pathway data gaps and identified their discharge points. However, despite the exhaustive measures executed by TIG, some components of the stormwater drainage pathways could not be ascertained. These components include the precise locations, routing, and connections of subsurface stormwater pipes, as well as the locations of some discharge points where subsurface stormwater pipes have been blocked.

Background

Washington Department of Ecology (Ecology) identified the stormwater pathway as a focus of future investigation at the Site. Ecology has proposed a scope of work under a draft agreed order that includes stormwater sampling and an evaluation of stormwater as a potential source of recontamination to the LDW Superfund Site. Between 2015 and 2017, TIG completed the following activities to investigate the stormwater drainage pathway at the Site:

- Reviewed historical and current drainage maps of the Site
- Conducted multiple site visits to identify drainage features
- Conducted a ground-penetrating radar (GPR) survey in February 2016
- Developed a topographic survey of the Site in March 2017
- Conducted camera surveys within stormwater and sewer pipes in September 2017

However, nine drainage pathway data gaps were identified due to conflicting mapping information, a lack of visible evidence at ground surface, and blocked and/or inaccessible piping. Figure 2 depicts the confirmed stormwater infrastructure following completion of map reviews, site visits, GPR surveys, topographic surveys, and camera surveys. The nine drainage data gaps identified through these activities, which represent the focus of this drainage pathway investigation are also depicted on Figure 2, and summarized below:

1. **South Park Marina outfall:** According to sewer network data provided by the City of Seattle (the City), the South Park Marina outfall is located approximately 25 ft downstream of the South Park Marina dock access ramp. TIG was unable to confirm the existence and precise location of the outfall during site visits, the GPR survey, or camera surveys.
2. **Catch basin CB-01:** According to sewer network data provided by the City, CB-01, located on the northeast portion of the property, conveys stormwater via subsurface piping to the South Park Marina outfall, where it discharges to the LDW. GPR and camera surveys were unable to trace the subsurface piping associated with the catch basin.
3. **Catch basin CB-02:** According to sewer network data provided by the City, CB-02, located west of the restrooms/shower/laundry facility, conveys stormwater via subsurface piping to the South Park Marina outfall, where it discharges to the LDW. Using findings from the camera surveys, TIG identified connections with the upgradient catch basins CB-03 and CB-04. However, the GPR and camera surveys were unable to identify the subsurface drainage pathway downgradient from CB-02.
4. **Catch basin CB-05:** According to sewer network data provided by the City, CB-05, located southeast of the restrooms/showers/laundry facility, conveys stormwater via subsurface piping to CB-06, located approximately 10 ft to the east. From CB-06, the stormwater is conveyed via subsurface piping to the South Park Marina outfall, where it discharges to the LDW. GPR and camera surveys were unable to confirm the connection with CB-06 or a discharge pathway downgradient of the catch basin.
5. **Catch basin CB-06:** According to sewer network data provided by the City, CB-06, located approximately 10 ft east of CB-05, conveys stormwater via subsurface piping to the South Park Marina outfall, where it discharges to the LDW. As stated above, The GPR and camera surveys could not verify a connection between CB-05 and CB-06.

6. **Northeast Rick's Master Marine shop roof drain:** TIG identified one roof drain on the northeast side of the Rick's Master Marine shop that discharges to subsurface piping. Camera surveys were unable to trace the subsurface piping.
7. **Southeast Rick's Master Marine shop roof drain:** TIG identified one roof drain on the southeast corner of the Rick's Master Marine shop that discharges to subsurface piping. Camera surveys were unable to trace the subsurface piping.
8. **South Park Tire Factory shop roof drain:** TIG identified a roof drain on the northwest corner of the South Park Tire Factory Shop that discharges to subsurface piping with an unconfirmed discharge path.
9. **Woodworking shop roof drain:** TIG identified three roof drains on the east side of the woodworking shop that discharge to subsurface piping with an unconfirmed discharge path.

Prior to the drainage pathway investigation presented herein, TIG investigated stormwater runoff from a metal roof at the Site to quantify the concentrations of metals entering the Site's stormwater system. In June 2017, as part of a site-wide stormwater sampling event at South Park Marina, TIG collected a stormwater sample from a roof drain attached to the Rick's Master Marine shop and submitted the sample for analysis of U.S. Environmental Protection Agency's (EPA's) 13 priority metals. Zinc was detected in the sample at a concentration of 1,700 µg/L. This zinc concentration is approximately 20 times greater than the maximum daily discharge benchmark for zinc (90 µg/L), as established under the NPDES boatyard general permit issued on July 6, 2016 (Permit No. WAG-050000).[1] Although Rick's Master Marine, and a second tenant, South Park Tire Factory, are not specifically mentioned in the Site's NPDES boatyard general permit, both businesses are located on the South Park Marina property and could be considered part of the South Park Marina facility. Therefore, stormwater discharges from these portions of the property may also be subject to the regulations established under the Site's NPDES boatyard general permit. The zinc concentration detected in stormwater from the Rick's Master Marine roof drain prior to the drainage pathway investigation indicated that the metal roof may be a potential source of contaminants to stormwater at the Site. However, because the discharge location of the roof was not confirmed prior to the drainage pathway investigation, it was unknown whether the roof runoff was also a potential source of contaminants to the LDW.[2]

In addition to the Rick's Master Marine Shop, there are several other structures at the Site may also be a potential source of contaminants to Site stormwater and/or the LDW. Prior to the drainage pathway investigation, no stormwater samples had been collected from these roof drains their drainage pathways could not be confirmed. It is important to resolve these drainage data gaps, as the stormwater pathway will

[1] Comparison of roof drain sample results to NPDES benchmarks is for reference only. The roof drain at Rick's Master Marine may not be part of the NPDES-permitted facility nor is it representative of stormwater discharges to state water because the samples do not accurately characterize stormwater runoff generated in the designated drainage area of the facility. Under the NPDES Boatyard General Permit, compliance samples are required to be collected from location(s) affected by boatyard related activities. At the Site, all roof drainage is mixed with other stormwater runoff prior to discharge to either the LDW or a storm sewer.

[2] Zinc is a contaminant of concern requiring cleanup in the LDW. However, in sediment data collected from adjacent to the site for the remedial investigation, zinc is not present above the sediment cleanup level of 410 mg/kg, as established by the 2014 LDW Superfund Site Record of Decision (ROD). According to Map 4-58 of the Final Remedial Investigation Report for the LDW dated 2010, maximum concentrations of zinc of up to 110 mg/kg were observed near South Park Marina. Therefore, it is unlikely that discharges from this metal roof have been a historical source of contamination. This memorandum does not evaluate the potential for recontamination.

be a focus of future remedial investigation and source control will potentially be an element of cleanup action at the Site.

Drainage Pathway Investigation

To quantify metals concentrations in stormwater draining from metal roofs at the Site, TIG completed a roof drain inventory and collected stormwater samples from drains connected to metal roofs that have unknown discharge pathways. TIG then compared the new stormwater samples with the NPDES benchmarks to identify those that may be potential sources of zinc and copper to the Site's stormwater. Secondary to the roof drain sampling, the drainage pathway investigation involved the execution of a series of dye tracer studies to confirm drainage pathways at the Site. The sections below provide details and findings from each study. Further specifics are provided in the attached photograph log (Attachment 1).

Roof Drain Inventory

TIG performed a roof drain inventory to identify all metal-roofed structures[3] and their associated roof drains at the Site. This allowed for evaluate whether they are potential sources of zinc to stormwater at the Site. There are four structures with metal roofs in addition to the Rick's Master Marine shop: the South Park Tire Factory shop, the South Park Marina main shop, the lumber storage building, and a shed (Figure 3). During a site visit on March 27, 2018, TIG observed that 15 of the 27 total roof drains at the Site are connected to these metal roofs.

The table below lists the metal roofs, their square footage, and associated roof drains.

Structure	Approximate area of metal roof (ft^2)	Number of roof drains	Number of roof drains with unconfirmed discharge pathways
Rick's Master Marine shop	4,200	4	2
South Park Tire Factory shop	8,500	4	1
Shed	330	2	0
South Park Marina main shop	200	2	1
Lumber storage building	1,000	3[1]	3

Note

[1] These roof drains are not directly attached to the lumber storage building. The lumber storage building's roof overhangs the woodworking shop. Therefore, stormwater from the lumber storage building is routed to three roof drains attached to the woodworking shop.

[3] Metal-roofed structures were identified based on visual observations by TIG staff from the ground surface, aerial photograph review, and input from South Park Marina staff. However, the composition of the roofs has not been confirmed. Roofs identified as non-metal composition were not evaluated in this drainage pathway investigation.

Of the 15 roof drains identified, six have unconfirmed subsurface drainage pathways (Figures 2,3): two roof drains attached to the east side of the Rick's Master Marine shop, one roof drain attached to the northwest corner of the South Park Tire Factory shop, and three roof drains discharging stormwater from the lumber storage building.

Roof Drain Sampling Field Activities

To evaluate whether the roof drains attached to metal roofs at the Site are potential sources of metals contamination, TIG sampled stormwater discharging from roof drains at the Site. Using the benchmarks established under the NPDES General Boatyard permit as screening levels, TIG focused on copper and zinc as potential contaminants of concern.

Following the collection of stormwater samples, TIG compared the sample results with the Site's NPDES benchmarks to identify the roof drains and metal roofs that may be potential sources of copper and zinc to the LDW. In preparation for the sampling event, TIG conducted storm tracking on a weekly basis to target days with extended periods of precipitation, ensuring adequate stormwater flows from roof drains for sample collection. In accordance with TIGs Sampling and Analysis Plan (SAP), TIG collected stormwater samples from a single roof drain at each of the metal-roofed structure at the Site. Each roof's sample serves as a substitution for the other attached roof drains. TIG selected sampling locations based on accessibility. Figure 3 depicts the roof drain sampling locations, and the table below describes each location.

Structure	Sampling location ID	Sampling location description
Rick's Master Marine shop	SRC-01	Roof drain located at the southwest corner of the Rick's Master Marine shop
South Park Tire Factory shop	SRC-02	Roof drain located at the southeast side of the South Park Tire Factory shop
Shed	SRC-03	Roof drain located on the east side of the shed
South Park Marina main shop	SRC-04	Roof drain located on the southwest corner of the South Park Marina Main Shop
Lumber storage building	SRC-05	Roof drain located east side of the woodworking shop[1]

Note

[1] As no roof drains are attached to the lumber storage building, TIG selected the SRC-05 roof drain sampling location because it has the potential to discharge stormwater from the lumber storage building.

On October 25, 2018, TIG collected a total of five stormwater samples and one duplicate sample at the Site. To collect samples, TIG placed a 500 mL high-density polyethylene sample bottle with nitric acid (HNO_3) preservative underneath the discharge point of each roof drain. Following collection, the samples were placed on ice in a properly packaged container and a chain of custody was prepared for all samples to be submitted to the analytical laboratory. OnSite Environmental, Inc. analyzed the samples for total zinc and copper using EPA method 200.8.

Roof Drain Sampling Results

Detectable concentrations of zinc and copper were present in all five samples collected (Figure 3). Copper was detected at concentrations ranging from 18 µg/L to 88 µg/L, none of which exceed the maximum daily benchmark for copper (90 µg/L). Zinc was detected at concentrations ranging from 110 µg/L to 8,700 µg/L, in exceedance of the maximum daily benchmark for copper (147 µg/L). The attached lab reports provide analytical results for zinc and copper concentrations in the roof drain samples (Attachment 3), and the table below summarizes the results.

Structure	Sampling location ID	Sample ID	Total Cu (µg/L)	Total Zn (µg/L)[1]
Rick's Master Marine shop	SRC-01	SPM-SRC-01-SW-20181102	18	**3,300**
South Park Tire Factory shop	SRC-02	SPM-SRC-02-SW-20181102	22	**8,700**
Shed	SRC-03	SPM-SRC-03-SW-20181102	30	**1,700**
South Park Marina main shop	SRC-04	SPM-SRC-04-SW-20181102	88	**670**
Lumber storage building	SRC-05	SPM-SRC-05-SW-20181102	56	**110**
NPDES daily benchmarks			147	90

Note

[1] Bold text indicates concentration is above the Maximum daily benchmark for discharges to the LDW, as established under the NPDES boatyard general permit.

The analytical results from the roof drain sampling event indicate that all five metal roofs at the Site are potential sources of zinc, as the drainage samples contain zinc concentrations are above the maximum daily zinc benchmark established under the NPDES boatyard general permit.

TIG evaluated the data quality assurance and quality control associated with the laboratory analysis. The relative percent difference (RPD) was calculated to measure the precision of the analysis between the original sample and the field duplicate sample—8.4 percent (8,700 µg/L for original, 8,000 µg/L for duplicate)—was less than the RPD limit of 20 percent for zinc, as established in TIG's Quality Assurance Project Plan (QAPP). However, the copper concentrations—58.8% (22 µg/L for original, 12 µg/L for duplicate)—did exceed the RPD limit of 20 percent. This suggests potential heterogeneity of copper in the source material sampled and/or lack of precision in the laboratory instrumentation at the time of the analysis. However, in considering the objectives of the sampling, this observed variability between the original sample and field duplicate are acceptable for the purposes of this investigation.

Dye Tracer Study Field Activities

TIG staff conducted the dye tracer study at the South Park Marina in February, November, and December 2018. To perform this study, TIG staff injected tracer dye into catch basins CB-01, CB-02, CB-05, and CB-06. TIG staff also injected tracer dye into two roof drains attached to the Rick's Master Marine shop, one

roof drain attached to the South Park Tire Factory shop, and one roof drain attached to the woodworking shop (Figure 4).

Prior to performing the dye tracer studies, TIG tracked storms on a weekly basis to target dry weather conditions to ensure optimal visibility during the dye tracer field activities. When a favorable stretch of weather was identified, TIG notified Ecology's Environmental Report Tracking System (ERTS) that a dye injection would be taking place at the Site. In notifying ERTS, TIG provided the address where the dye injection would be taking place, the color of the dye, the time and date of the injection, the company performing the injection, and the anticipated receiving water body.

A dye solution was injected at each location investigated. TIG mixed solid non-toxic fluorescein dye tablets with potable water in a portable reservoir and pumped the resulting mixture into each catch basin using a portable ditch pump. To calculate the volume of water required for each injection, TIG estimated the diameter of subsurface piping and the linear distance from the catch basin to the presumed discharge point. Error factors ranging from 50 to 100 percent were added to the estimated volume to account for unknown changes in pipe diameter and/or flow path that may have increased the volume of dye solution required for a visual confirmation of discharge.

Following the injection of the dye solution, TIG staff monitored down-gradient catch basins, sanitary sewer vaults, sanitary sewer lines, and the South Park Marina outfall for visual confirmation of the dye solution. At locations where there was a possibility that drainage data gaps being investigated shared drainage infrastructure, TIG waited at least four days between dye injections to allow for photochemical decay of the dye. For locations where there is no likelihood of shared drainage infrastructure, dye injections were performed on the same day.

Dye Tracer Findings

Through review of results from dye tracing, TIG addressed several drainage pathway data gaps for the Site. Photographs and field reports from each dye tracer study are provided in attachments 1 and 2. An updated stormwater sewer network, incorporating the findings of the dye tracer study, is depicted in Figure 4. Findings of the dye tracing is summarized below:

- **CB-01:** On February 9, 2018, TIG staff injected approximately 400 gallons of dye solution into catch basin CB-01, located approximately 50 feet east of the northeast corner of the Rick's Master Marine shop. Five minutes after the injection, TIG staff obtained visual confirmation of dye solution discharging into the Site's sanitary sewer vault, located northeast of the restrooms/shower/laundry structure. Discharges to the sanitary sewer vault were conveyed to the City's combined sewer system at the time the dye test was completed. Following this result, South Park Marina staff plugged the catch basin. Stormwater from this area is now rerouted to catch basin CB-05 via overland transport.
- **CB-02:** On February 21, 2018, TIG staff injected approximately 210 gallons of dye solution into catch basin CB-02, located east of the South Park Tire Factory shop. Five minutes after the injection, TIG staff obtained visual confirmation of dye solution discharging to the LDW via the South Park Marina outfall. During this dye investigation, no dyed solution was observed in other onsite catch basins or the sanitary sewer vault, indicating a direct drainage path from CB-02 to the South Park Marina outfall. According to the catch basin camera survey performed in 2017, catch basins CB-03 and CB-04, located upgradient from CB-02, share the same drainage infrastructure and therefore also discharge stormwater to the LDW via the South Park Marina outfall.

- **CB-05:** On February 9, 2018, TIG staff injected approximately 110 gallons of dye solution into catch basin CB-05, located southeast of the restrooms/showers/laundry structure. Thirty-eight minutes after the injection, TIG staff obtained visual confirmation of dye solution discharging to the LDW via the South Park Marina outfall. During this dye investigation, no dyed solution was observed in other onsite catch basins or the sanitary sewer vault, indicating a direct drainage path from CB-05 to the South Park Marina outfall. TIG documented an extended lag time between the dye injection at CB-05 and its discharge to the LDW via the South Park Marina outfall. The extended duration may be due to the use of a lower capacity ditch pump to transfer the dye solution to the catch basin or the possibly the result of partially severed subsurface drainage pipes between CB-05 and the South Park Marina outfall.
- **CB-06:** On February 27, 2018, TIG staff injected approximately 110 gallons of dye solution into catch basin CB-06, located approximately 15 ft east of CB-05. Two minutes after the injection, TIG staff obtained visual confirmation of dye solution discharging to the LDW via the South Park Marina outfall. During this dye investigation, no dyed solution was observed in other onsite catch basins or the sanitary sewer vault, indicating a direct drainage path from CB-06 to the South Park Marina outfall.

Dye tracer studies performed in November and December 2018 allowed for the delineation of subsurface drainage pathways associated with four roof drains at the Site. Findings from each dye investigation are depicted on Figure 4 and summarized below:

- **Roof drain at northeast corner of the Rick's Master Marine shop:** On November 16, 2018, TIG staff injected approximately 30 gallons of dye solution into the subsurface piping associated with the roof drain at the northeast corner of the Rick's Master Marine shop. Twenty minutes after the injection, TIG staff obtained visual confirmation of dye solution seeping up to the ground surface through cracks in the asphalt pavement in the immediate vicinity of the roof drain. TIG estimated that less than 1 gallon of water seeped up to the ground surface. During this dye investigation, no dye solution was observed in onsite catch basins, within the sanitary sewer vault, or discharging to the LDW via site outfalls. Since this was the only visual confirmation of dye solution, TIG concluded that stormwater from the roof drain at the northeast corner of the Rick's Master Marine shop infiltrates the ground surface. According to the topographic survey performed at the Site in 2017, stormwater that seeps back up to the ground surface through cracks in the asphalt infiltrates the ground surface through the gravel area along the shoreline of the Site.
- **Roof drain at northwest corner of the South Park Tire Factory shop:** On November 16, 2018, TIG staff injected approximately 100 gallons of dye solution into subsurface piping associated with the roof drain at the northwest corner of the South Park Tire Factory shop. Immediately after the injection, TIG staff obtained visual confirmation of dye solution entering catch basin CB-10 through a subsurface inlet. According to the City's sewer network data, stormwater entering catch basin CB-10 is conveyed to King County-owned stormwater drainage infrastructure located along the west side of S Thistle Street, and ultimately discharges to the LDW via King County-owned outfall OF-2215.
- **Roof drain at southeast corner of the Rick's Master Marine shop:** On November 16, 2018, TIG staff attempted to inject dye solution into the subsurface piping associated with the roof drain at the southeast corner of the Rick's Master Marine shop. However, the subsurface piping was filled with gravel and blocking dye solution from entering the piping, indicating that the subsurface piping associated with this roof drain is completely blocked. Based on the surface topography determined during a 2017 topographic survey conducted at the Site, the roof drain at the southeast corner of Rick's

Master Marine shop discharges to the ground surface, to catch basin CB-03, and ultimately discharges to the LDW via the South Park Marina outfall.

- **Roof drain at east side of woodworking shop:** On December 6, 2018, TIG staff injected approximately 74 gallons of dye solution into subsurface piping associated with the central roof drain at the east side of the woodworking shop. Five minutes after the injection, TIG staff obtained visual confirmation of dye solution discharging from the subsurface piping associated with the roof drain located at the northeast corner of the woodworking shop. During this dye injection, no dye solution was observed in onsite catch basins, within the StormwateRx™ Aquip™ 50 SBE[4] vault, or discharging to the LDW via site outfalls. Nor was dye solution observed in the subsurface pipe on the northeast corner of the Site, presumed to be connected to the roof drain. Since the only visual confirmation of dye solution occurred in the adjacent roof drain because of the backup of subsurface flow, TIG concluded that stormwater from the roof drains on the east side of the woodworking shop infiltrates the ground surface due to failed or collapsed subsurface piping.

The table below summarizes the results of the dye tracer studies.

Injection point	Injection date	Injection volume (gallons)	Time injected	Time discharge observed	Discharge point	Photo log number(s)
CB-01	2/14/2018	400	12:35 PM	12:40 PM	Sanitary sewer vault	1, 2
CB-02	2/21/2018	210	10:53 AM	10:58 AM	South Park Marina outfall	3, 4
CB-05	2/9/2018	110	10:59 AM	11:37 AM	South Park Marina outfall	5, 6
CB-06	2/27/2018	110	10:23 AM	10:25 AM	South Park Marina outfall	7, 8
NE Rick's Master Marine shop roof drain	11/16/2018	30	9:50 AM	10:10 AM	Infiltrates subsurface	9, 10
NW South Park Tire Factory shop roof drain	11/16/2018	100	11:00 AM	11:00 AM	Outfall OF- 2215	11, 12
SE Rick's Master Marine shop roof drain	11/16/2018	0	11:15 AM	N/A	Ground surface	13
East woodworking shop roof drain	12/6/2018	74	11:05 AM	11:20 AM	Infiltrates subsurface	14, 15

[4] StormwateRx™ and Aquip™ are registered trademarks of StormwateRx LLC.

Summary

TIG's drainage pathway investigation has resolved several of the stormwater drainage network data gaps identified at the Site, including the identification of discharge points associated with catch basins in the center and western portions of the Site. TIG confirmed that catch basins CB-02, CB-03, CB-04, CB-05, and CB-06 discharge stormwater to the LDW via the South Park Marina outfall. Catch basin CB-01 discharges stormwater to South Park Marina Limited Partnership's sewer vault, which in turn discharges to the City's combined sewer system.[5] Figure 4 depicts the Site's stormwater drainage network.

Results from TIG's dye tracer studies have also resolved stormwater discharge data gaps associated with roof drains that discharge to subsurface drainage infrastructure. TIG has confirmed that the roof drain located at the northeast corner of the Rick's Master Marine shop infiltrates the ground surface. TIG has also confirmed that the roof drain located at the southeast corner of the Rick's Master Marine Shop is blocked. This roof drain conveys stormwater over land to catch basin CB-03, which ultimately discharge to the LDW. The roof drain located at the northwest corner of the South Park Tire Factory shop conveys stormwater to catch basin CB-10, which in turn drains to subsurface King County-owned stormwater infrastructure along S Thistle Street, and ultimately discharges to the LDW via King County-owned outfall OF-2215 (Figure 4).

TIG has identified the potential drainage pathways for the following roof drains (Figure 4)[6] and describes them as follows:

- **The Rick's Master Marine shop:**
    - Two roof drains on the west side of the Rick's Master Marine shop discharge stormwater onto the ground surface along S Thistle Street, where it may enter King County-owned subsurface drainage infrastructure as sheet flow and subsequently discharge to the LDW via King County-owned outfall OF-2215.
    - The roof drain at the northeast corner of the Rick's Master Marine shop connect to subsurface piping, where stormwater it infiltrates subsurface.
    - The roof drain at the southeast corner of the Rick's Master Marine shop discharges to the paved surface because of blocked subsurface piping, and ultimately discharges to the LDW via the South Park Marina outfall.
- **The South Park Tire factory:**
    - The two roof drains on the west side of the South Park Tire Factory shop connect to catch basin CB-10, which conveys stormwater to the King County-owned subsurface drainage infrastructure along S Thistle Street, and ultimately discharges to the LDW via King County-owned outfall OF-2215.

[5] South Park Marina staff decommissioned catch basin CB-01 following the drainage pathway investigation.

[6] In this analysis, TIG used the roof drain stormwater sample results collected at sampling locations SRC-01 through SRC-05 as substitutions for copper and zinc concentrations in stormwater discharged from all roof drains at each respective metal-roofed structure. Based on this analysis, stormwater collected from the roof drains attached to metal roofs exhibits elevated concentrations of zinc (Figure 3).

  - The two roof drains on the east side of the South Park Tire Factory shop connect to subsurface drainage infrastructure in the center portion of the Site, which ultimately discharges to the LDW via the South Park Marina outfall.

- **Shed:** Both roof drains attached to the shed discharge stormwater to the ground surface, which enters catch basins CB-05 and CB-06 as sheet flow, and ultimately discharges to the LDW via the South Park Marina outfall.
- **The South Park Marina main:** Both roof drains attached to this structure discharge stormwater to the ground surface, which enters catch basin CB-08 as sheet flow, and ultimately discharges to the LDW via the South Park Marina outfall.
- **The lumber storage building:** stormwater flows onto roof of the woodworking shop via three roof drains. From the woodworking shop, roof drains discharge stormwater to failed or collapsed subsurface piping in the northeast corner of the site, resulting in ground surface infiltration.

TIG investigated nine stormwater drainage network pathway data gaps and identified their discharge points. However, despite the exhaustive measures executed by TIG, some components of the stormwater drainage pathways could not be ascertained. These components include the precise locations, routing, and connections of subsurface stormwater pipes, as well as the locations of some discharge points where subsurface stormwater pipes have been blocked.

TIG recommends implementing measures in the locations where exceedances of metals' concentrations in samples from roof drains associated with metal roofs were identified to avoid future discharges to the LDW that may contain metal concentrations exceeding the permitted daily benchmarks.

Attachments

Table 1: Stormwater Drainage Network Data Gaps

Figure 1: Site Features

Figure 2: Site Stormwater Drainage Network Data Gaps

Figure 3: Roof Drain Sampling Locations and Results

Figure 4: Updated Site Stormwater Drainage Network

Attachment 1: Photograph Log

Attachment 2: Roof Drain Sampling Lab Reports

1810-324, OnSite Environmental Inc.

Table 1: Stormwater Drainage Network Data Gaps

Results of Drainage Pathway Investigation

Drainage feature associated with data gap	Stormwater drainage network data gap description	Drainage feature discharge surface	Discharge location
Catch basin CB-01	Partially unconfirmed subsurface drainage pathway and unknown discharge point	Subsurface piping	South Park Marina sanitary sewer vault
Catch basin CB-02	Partially unconfirmed subsurface drainage pathway and unknown discharge point	Subsurface piping	South Park Marina outfall
Catch basin CB-05	Unconfirmed subsurface drainage pathway and unknown discharge point	Subsurface piping	South Park Marina outfall
Catch basin CB-06	Unconfirmed subsurface drainage pathway and unknown discharge point	Subsurface piping	South Park Marina outfall
Southeast Rick's Master Marine shop roof drain	Unconfirmed subsurface drainage pathway and discharge point	Subsurface piping	Ground surface (due to blocked subsurface piping)
Northeast Rick's Master Marine shop roof drain	Unconfirmed subsurface drainage pathway and discharge point	Subsurface piping	Infiltration of ground surface (due to blocked subsurface piping)
Northwest South Park Tire Factory shop roof drain	Unconfirmed subsurface drainage pathway and discharge point	Subsurface piping	Outfall OF-2215
Lumber storage building roof drains	Unconfirmed subsurface drainage pathway and discharge point	Subsurface piping	Infiltration of ground surface (due to blocked subsurface piping)
South Park Marina outfall	Unconfirmed existence and location of outfall	LDW	Not applicable

Acronyms and Abbreviations

LDW: Lower Duwamish Waterway

OF-2215 (SOUTH PARK BRIDGE)
BOAT RAMP
DUWAMISH RIVER
CB-01
RICK'S MASTER MARINE SHOP
NORTH RESIDENTIAL STRUCTURE
16TH AVE S
SOUTH PARK MARINA OUTFALL
CB-03
CB-10
SHED
CB-02
SOUTH PARK TIRE FACTORY SHOP
RESTROOMS/ SHOWERS/ LAUNDRY
CB-06
CB-05
SOUTH PARK MARINA OFFICE
CB-04
EAST RESIDENTIAL STRUCTURE
HARBORMASTER SHOP
SOUTH PARK MARINA MAIN SHOP
UNNAMED OUTFALL NO. 1
SOUTH PARK MARINA DOCK
OF-2214
CB-07
CB-08
CB-09
DALLAS AVE S
PLASTIC CANOPY
STORAGE SHED
WOODWORKING SHOP
16TH AVE S
LUMBER STORAGE BUILDING

Legend:

- Outfall
- Catch basin/inlet
- Historical sanitary sewer hook up
- Roof drain
- Roof drain associated with metal roof
- Pump vault
- Sanitary sewer vault
- Structure
- StormwateRx™ CONEX box
- Washwater treatment CONEX box
- Shoreline (approximate)
- South Park Marina site boundary

Notes:

1. Satellite imagery collected in 2016 provided by Apollo Mapping (Apollo 2016).

0 70 140 Feet
Graphic Scale

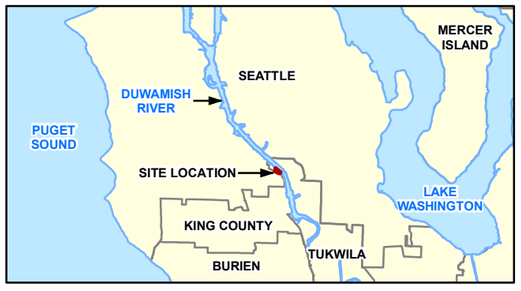


Figure 1

Site Features

Karr Tuttle Campbell
South Park Marina

TIG environmental™
INVESTIGATIONS • FORENSICS • REMEDIATION

Data Location: Syracuse Created By: mkohberger Modified By: kmontague
G:\GIS\SPMLP\SouthParkMarina\DataGapInvestigation\SummaryReport\mxd\Site Features_v2.mxd 12/28/2018 11:41:22 AM

OF-2215
(SOUTH PARK BRIDGE)

DUWAMISH RIVER

6. Unconfirmed subsurface drainage pathway associated with roof drain

RICK'S MASTER MARINE SHOP

CB-01

NORTH RESIDENTIAL STRUCTURE

SOUTH PARK MARINA OUTFALL

SOUTH PARK MARINA DOCK

7. Unconfirmed subsurface drainage pathway associated with roof drain

2. Partially unconfirmed subsurface drainage pathway associated with CB-01

1. Precise location of outfall unconfirmed

8. Unconfirmed subsurface drainage pathway associated with roof drain

CB-03

CB-10

CB-02

SHED

RESTROOMS/SHOWERS/LAUNDRY

16TH AVE S

SOUTH PARK TIRE FACTORY SHOP

3. Partially unconfirmed suburface drainage pathway associated with CB-02, CB-03, and CB-04

5. Unconfirmed subsurface pathway from CB-06 and downgradient discharge pathway

CB-06

CB-05

4. Unconfirmed subsurface drainage pathway associated with CB-05

SOUTH PARK MARINA OFFICE

CB-04

EAST RESIDENTIAL STRUCTURE

HARBORMASTER SHOP

SOUTH PARK MARINA MAIN SHOP

UNNAMED OUTFALL NO. 1

OF-2214

CB-07

CB-08

CB-09

DALLAS AVE S

STORAGE SHED

PLASTIC CANOPY

WOODWORKING SHOP

9. Unconfirmed subsurface drainage pathway associated with roof drain

16TH AVE S

LUMBER STORAGE BUILDING

Legend:

- Outfall
- Catch basin/inlet
- Roof drain
- Roof drain associated with metal roof
- Pump vault
- Sanitary sewer vault
- Storm sewer pipe
- Structure
- Metal roof
- StormwaterRx™ CONEX box
- Washwater Treatment CONEX box
- Duwamish River (approximate)
- South Park Marina site boundary

Stormwater drainage network data gap description

N

Notes:

1. Sewer network data obtained from the City of Seattle (City of Seattle 2013) and located by Axis Survey and mapping.

0 70 140 Feet

Graphic Scale

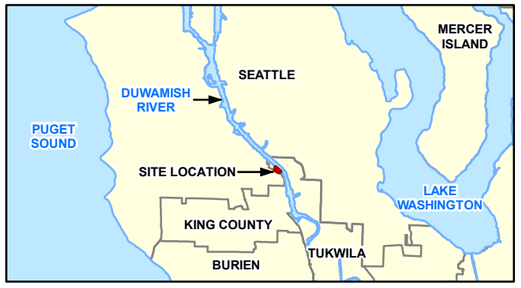


Figure 2

Site Stormwater Drainage Network Data Gaps

Karr Tuttle Campbell
South Park Marina

TIG environmental™
INVESTIGATIONS • FORENSICS • REMEDIATION

Data Location: Syracuse Created By: mkohberger Modified By: abanda
G:\GIS\SPML.P\SouthParkMarina\DataGapInvestigationSummaryReport\mxd\Storm and Sewer Network System Data Gaps_v4.mxd 1/16/2019 1:43:53 PM

OF-2215 (SOUTH PARK BRIDGE)

BOAT RAMP

SRC-01		
Sample Date	Analyte	Result (µg/L)
6/8/2017	Copper	ND
6/8/2017	Zinc	**1700**
11/2/2018	Copper	18
11/2/2018	Zinc	**3300**

SRC-03		
Sample Date	Analyte	Result (µg/L)
11/2/2018	Copper	30
11/2/2018	Zinc	**1700**

DUWAMISH RIVER

CB-01

RICK'S MASTER MARINE SHOP

16TH AVE S

NORTH RESIDENTIAL STRUCTURE

SOUTH PARK MARINA OUTFALL

CB-03

CB-10

SHED

CB-02

CB-06

SOUTH PARK TIRE FACTORY SHOP

RESTROOMS/ SHOWERS/ LAUNDRY

CB-05

CB-04

SOUTH PARK MARINA OFFICE

EAST RESIDENTIAL STRUCTURE

SRC-04		
Sample Date	Analyte	Result (µg/L)
11/2/2018	Copper	88
11/2/2018	Zinc	**670**

HARBORMASTER SHOP

SOUTH PARK MARINA MAIN SHOP

UNNAMED OUTFALL NO. 1

SOUTH PARK MARINA DOCK

OF-2214

CB-07

CB-08

CB-09

DALLAS AVE S

PLASTIC CANOPY

STORAGE SHED

WOODWORKING SHOP

SRC-02		
Sample Date	Analyte	Result (µg/L)
11/2/2018	Copper	22
11/2/2018	Zinc	**8700**
11/2/2018	*Copper*	*12*
11/2/2018	*Zinc*	***8000***

16TH AVE S

SRC-05		
Sample Date	Analyte	Result (µg/L)
11/2/2018	Copper	56
11/2/2018	Zinc	**110**

LUMBER STORAGE BUILDING

Legend:

- South Park Marina outfall
- Catch basin/inlet
- Roof drain
- Roof drain associated with metal roof
- Pump vault
- Sanitary sewer vault
- Roof drain sampling location
- Structure
- Metal roof
- StormwateRx™ CONEX box
- Washwater treatment CONEX box
- Shoreline (approximate)
- South Park Marina site boundary

Site Catchment Areas:

- City sewer system
- Infiltrates through gravel surface
- OF-2214
- OF-2215
- Overland drainage
- South Park Marina outfall
- T-117 streets and stormwater project outfall

N

Notes:

1. Satellite imagery collected in 2016 provided by Apollo Mapping.
2. Sample results depicted in bold text indicate an exceedance of the Site's NPDES benchmark for stormwater discharges to the Lower Duwamish Waterway.
3. Italicized sample results denote a field duplicate sample.

0 70 140 Feet

Graphic Scale

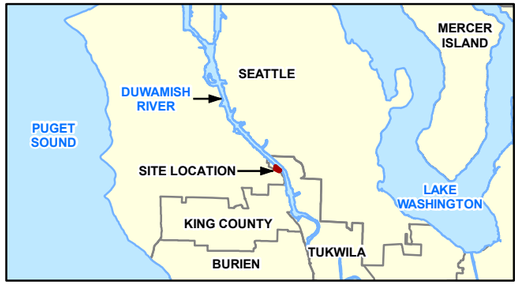


Figure 3

Roof Drain Sampling Locations and Results

Karr Tuttle Campbell
South Park Marina

TIG environmental™
INVESTIGATIONS • FORENSICS • REMEDIATION

Data Location: Syracuse Created By: mkohberger Modified By: abanda
G:\GIS\SPMLP\SouthParkMarina\DataGapInvestigationSummaryReport\mxd\Roof Drain Sample Locations_v5.mxd 1/16/2019 1:47:16 PM

OF-2215 (SOUTH PARK BRIDGE)

BOAT RAMP

Stormwater discharge from CB-01 to the Sanitary Sewer Vault Confirmed on 2-14-2018. SPM Staff decommissioned catch basin CB-01 following dye tracer study

DUWAMISH RIVER

Stormwater discharge from roof drain to subsurface via infiltration due to blocked subsurface pipe confirmed on 11-16-2018

CB-01

RICK'S MASTER MARINE SHOP

Stormwater discharge from roof drain to ground surface due to blocked subsurface pipe confirmed on 11-16-2018

NORTH RESIDENTIAL STRUCTURE

Stormwater discharge from CB-05 to the LDW via the South Park Marina outfall confirmed on 2-9-2018

Stormwater discharge from roof drain to the LDW via outfall OF-2215 confirmed on 11-16-2018

SOUTH PARK MARINA OUTFALL

Outfall location confirmed on 2-9-2018

CB-10

CB-03

CB-02

SHED

RESTROOMS/ SHOWERS/ LAUNDRY

16TH AVE S

SOUTH PARK TIRE FACTORY SHOP

CB-05

CB-06

Stormwater discharge from CB-06 to the LDW via the South Park Marina outfall confirmed on 2-21-2018

Stormwater discharge from CB-02 to the LDW via the South Park Marina outfall confirmed on 2-21-2018

SOUTH PARK MARINA OFFICE

CB-04

EAST RESIDENTIAL STRUCTURE

HARBORMASTER SHOP

SOUTH PARK MARINA MAIN SHOP

UNNAMED OUTFALL NO. 1

SOUTH PARK MARINA DOCK

OF-2214

CB-07

CB-08

CB-09

DALLAS AVE S

PLASTIC CANOPY

STORAGE SHED

WOODWORKING SHOP

Stormwater discharge from roof drain to subsurface via infiltration due to blocked subsurface pipe confirmed on 12-6-2018

16TH AVE S

LUMBER STORAGE BUILDING

Legend:

- Outfall
- Catch basin/inlet
- Roof drain
- Roof drain associated with metal roof
- Pump vault
- Sanitary sewer vault
- Dye tracer study injection point
- Combined sewer pipe
- Combined sewer pipe (inferred)
- Sanitary sewer pipe
- Storm sewer pipe
- Storm sewer pipe (discharge point confirmed and drainage pathway inferred)
- Vessel wash collection pipe
- Structure
- StormwateRx™ CONEX box
- Washwater treatment CONEX box
- Duwamish River (approximate)
- South Park Marina site boundary

Site Catchment Areas:

- City sewer system
- Infiltrates through gravel surface
- OF-2214
- OF-2215
- Overland drainage
- South Park Marina outfall
- T-117 streets and stormwater project outfall

N

Notes:

1. Sewer network data provided by the city of Seattle (City of Seattle 2013) and modified by TIG based on findings from the March 2017 topographic survey, the September 2017 catch basin camera scoping survey, and the February 2018 dye tracer investigation.

0 70 140

Feet

Graphic Scale

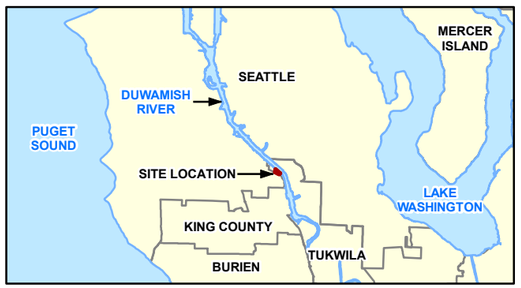


Figure 4

Updated Site Stormwater Drainage Network

Karr Tuttle Campbell
South Park Marina

TIG environmental™
INVESTIGATIONS • FORENSICS • REMEDIATION

Data Location: Syracuse Created By: mkohberger Modified By: abanda
G:\GIS\SPMLP\SouthParkMarina\DataGapInvestigationSummaryReport\mxd\Storm and Sewer Network System_v3.mxd 1/16/2019 1:48:01 PM

Attachment 1

Photograph Log

TIG environmental™
INVESTIGATIONS ▾ FORENSICS ▾ REMEDIATION

Attachment 1: Drainage Pathway Investigation Photograph Log

Results of Drainage Pathway Investigation



Photograph 1: Pumping fluorescein dye solution into catch basin CB-01.



Photograph 2: Visual confirmation of fluorescein dye solution discharging from CB-01 to the sanitary sewer vault.

Attachment 1: Drainage Pathway Investigation Photograph Log

Results of Drainage Pathway Investigation



Photograph 3: Pumping fluorescein dye solution into CB-02.



Photograph 4: Visual confirmation of fluorescein dye discharging from CB-02 to the Lower Duwamish Waterway (LDW) via the South Park Marina outfall.

Attachment 1: Drainage Pathway Investigation Photograph Log

Results of Drainage Pathway Investigation



Photograph 5: Pumping fluorescein dye solution into CB-05.



Photograph 6: Visual confirmation of dye discharging from CB-05 to the LDW via the South Park Marina outfall.

Attachment 1: Drainage Pathway Investigation Photograph Log

Results of Drainage Pathway Investigation



Photograph 7: Pumping fluorescein dye solution into CB-06.



Photograph 8: Visual confirmation of dye discharging from CB-06 to the LDW via the South Park Marina outfall.

Attachment 1: Drainage Pathway Investigation Photograph Log

Results of Drainage Pathway Investigation



Photograph 9: Pumping dye solution into the roof drain attached to the northeast corner of the RMM Shop. Note the seepage of dye solution through cracks in the asphalt.



Photograph 10: Looking southeast at dye solution seeping up to ground surface through cracks in asphalt following the pumping of dye solution into the roof drain attached to the northeast corner of the RMM Shop.

Attachment 1: Drainage Pathway Investigation Photograph Log

Results of Drainage Pathway Investigation



Photograph 11: Pumping dye solution into the roof drain located the northwest corner of the SPTF shop.



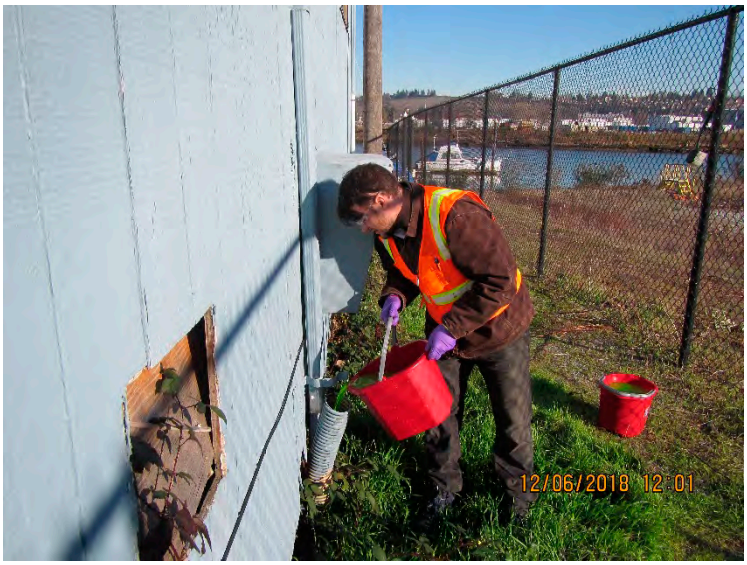
Photograph 12: Visual confirmation of dye solution discharging to catch basin CB-10 immediately following the initiation of dye pumping into the roof drain located at the northwest corner of the SPTF Shop.

Attachment 1: Drainage Pathway Investigation Photograph Log

Results of Drainage Pathway Investigation



Photograph 13: Refusal of dye solution into clogged subsurface piping associated with the roof drain located at the southeast corner of the RMM Shop.



Photograph 14: Pouring dye solution into central roof drain on east side of the Woodworking Shop.

Attachment 1: Drainage Pathway Investigation Photograph Log

Results of Drainage Pathway Investigation



Photograph 15: Visual confirmation of dye solution leaking from the roof drain located at the northeast corner of the Woodworking Shop, approximately 20 feet downgradient from the central roof drain where dye solution was injected.

Attachment 2

Roof Drain Sampling Lab Reports

TIG environmental™
INVESTIGATIONS ▾ FORENSICS ▾ REMEDIATION

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

November 1, 2018

Audrey Hackett
The Intelligence Group
1200 Westlake Avenue N., Suite 809
Seattle, WA 98109

Re: Analytical Data for Project 2017.0323 Task 4.1.3
Laboratory Reference No. 1810-324

Dear Audrey:

Enclosed are the analytical results and associated quality control data for samples submitted on October 25, 2018.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: November 1, 2018
Samples Submitted: October 25, 2018
Laboratory Reference: 1810-324
Project: 2017.0323 Task 4.1.3

Case Narrative

Samples were collected on October 25, 2018 and received by the laboratory on October 25, 2018. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: November 1, 2018
Samples Submitted: October 25, 2018
Laboratory Reference: 1810-324
Project: 2017.0323 Task 4.1.3

TOTAL METALS
EPA 200.8

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SPM-SRC-01-SW-20181025**					
Laboratory ID:	10-324-01					
Copper	**18**	2.0	EPA 200.8	10-26-18	10-29-18	
Zinc	**3300**	130	EPA 200.8	10-26-18	10-29-18	
Client ID:	**SPM-SRC-02-SW-20181025**					
Laboratory ID:	10-324-02					
Copper	**22**	2.0	EPA 200.8	10-26-18	10-29-18	
Zinc	**8700**	130	EPA 200.8	10-26-18	10-29-18	
Client ID:	**SPM-SRC2-02-SW-20181025**					
Laboratory ID:	10-324-03					
Copper	**12**	2.0	EPA 200.8	10-26-18	10-29-18	
Zinc	**8000**	130	EPA 200.8	10-26-18	10-29-18	
Client ID:	**SPM-SRC-03-SW-20181025**					
Laboratory ID:	10-324-04					
Copper	**30**	2.0	EPA 200.8	10-26-18	10-29-18	
Zinc	**1700**	130	EPA 200.8	10-26-18	10-29-18	
Client ID:	**SPM-SRC-04-SW-20181025**					
Laboratory ID:	10-324-05					
Copper	**88**	2.0	EPA 200.8	10-26-18	10-29-18	
Zinc	**670**	130	EPA 200.8	10-26-18	10-29-18	
Client ID:	**SPM-SRC-05-SW-20181025**					
Laboratory ID:	10-324-06					
Copper	**56**	2.0	EPA 200.8	10-26-18	10-29-18	
Zinc	**110**	2.5	EPA 200.8	10-26-18	10-29-18	

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: November 1, 2018
Samples Submitted: October 25, 2018
Laboratory Reference: 1810-324
Project: 2017.0323 Task 4.1.3

TOTAL METALS
EPA 200.8
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1026WH1					
Copper	**ND**	2.0	EPA 200.8	10-26-18	10-29-18	
Zinc	**ND**	2.5	EPA 200.8	10-26-18	10-29-18	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	10-212-15										
	ORIG	DUP									
Copper	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Zinc	**3.14**	**3.24**	NA	NA		NA		NA	3	20	
MATRIX SPIKES											
Laboratory ID:	10-212-15										
	MS	MSD	MS	MSD		MS	MSD				
Copper	**106**	**107**	100	100	ND	**106**	**107**	75-125	1	20	
Zinc	**108**	**111**	100	100	3.14	**105**	**108**	75-125	3	20	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Chain of Custody

Page 1 of 1

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Laboratory Number: 10-324

Company: TIG ENVIRONMENTAL
Project Number: 2017.0323 TASK 4.1.3
Project Name: SPM SOURCE CONTROL (ROOF DRAIN)
Project Manager: AUDREY HACKETT
Sampled by: NICHOLAS W. SCHLAGENHAFT

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☒ Standard (7 Days) (TPH analysis 5 Days)
☐ _____ (other)

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	Total Cu, Total Zn (200.8)				% Moisture
1	SPM-SRC-01-SW-20181025	10-25-2018	11:03	STORM WATER	1																		X				
2	SPM-SRC-02-SW-20181025	10-25-2018	11:10	STORM WATER	1																		X				
3	SPM-SRC2-02-SW-20181025	10-25-2018	11:14	STORM WATER	1																		X				
4	SPM-SRC-03-SW-20181025	10-25-2018	11:35	STORM WATER	1																		X				
5	SPM-SRC-04-SW-20181025	10-25-2018	11:29	STORM WATER	1																		X				
6	SPM-SRC-05-SW-20181025	10-25-2018	11:37	STORM WATER	1																		X				

	Signature	Company	Date	Time
Relinquished		TIG	10/25/18	13:14
Received		Speedy	10-25-18	13:14
Relinquished		Speedy	10-25-18	1448
Received		OSE	10/25/18	1448
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☒ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☒

FIELD REPORT

Client	South Park Marina Limited Partnership
Date	Tuesday, October 01, 2024
Project Location	8604 Dallas Ave S, Seattle, Washington
Project Name and No.	Stormwater Regulatory Coordination
Task No.	Task 10.01
Weather, Temperature	Sunny, approximately 46° F
Time onsite	08:45 to 11:35
Purpose of Visit	APS Camera Survey of CB-10 and CB-11
TIG Staff on Site	Rebeca O'Dell
Other Staff on Site	Ricardo Gomez and Hans Harper (APS)

This report presents documentation of TIG Environmental's (TIG's)[1] field activities. Any conclusions and recommendations made in this field report are subject to review and approval by the TIG Project Manager.

Summary of Field Activities

This report presents the field activities conducted by TIG on Tuesday, October 01, 2024, at the South Park Marina Site (the site). The objective of this site visit was to observe the camera survey of CB-10 and CB-11 by Applied Professional Services (APS) in response to observations and comments by the Washington State Department of Ecology (Ecology) during the compliance inspection in May.

08:45 TIG staff (Rebeca O'Dell) arrived at the site and donned PPE. APS staff (Ricardo and Hans) were already onsite and arrived at 08:25. TIG checked in with APS and found that the camera survey at CB-11 was already completed. CB-11 led directly to CB-08. TIG photographed the paint on the ground and recorded the depth of the subsurface pipe on the attached map (between 12 to 26 in below ground surface; bgs). APS confirmed that no additional subsurface pipe(s) branched off this pipe (Photos 1-3).

09:00 TIG and APS mobilized equipment to CB-10. APS parked their vehicle at the Tire Factory (Photo 4). Upon arrival, TIG and APS noticed an open garage door at the Tire Factory where staff were actively working on vehicles. APS notified a Tire Factory employee about their work at CB-10 and confirmed that their vehicle's parking location was acceptable. APS began setting up camera equipment on CB-10.

09:35 APS inserted a camera into CB-10. The camera headed towards the Legacy Master Marine (LMM) property, took a right turn at the fence line, then a left turn at the Tire Factory building, and terminated at the roof drain. APS confirmed that no additional subsurface pipe(s) branched off this pipe. TIG recorded the depth of the subsurface pipe (approximately 3 ft bgs) and photographed the painted area (Photos 5-7).

At TIG's request, APS conducted a general sweep of the area and found no anomalies on the Tire Factory side of the fence. TIG marked up the site map.

[1] TIG Environmental is a Verdantas company as of August 2023.

10:00 At TIG's request, APS accessed the LMM property and swept the area. The area was cluttered with metal pipe, tires, ladders, and other equipment (Photo 8). APS asked an LMM staff member (Joe) if they could move some items. LMM indicated that there was only one employee working and thought it would be too much of an undertaking for one person to carry out. APS offered to move some equipment, but LMM was concerned about APS's safety and didn't want them moving anything. TIG instructed APS to work around the equipment to the best of their ability and APS continued sweeping the area.

APS reported no detections near CB-10 but noted random interference from nearby metal/conductive sources (pipes, ladders, storage containers, LMM equipment), which caused some confusion amongst APS staff. One APS staff wondered if perhaps there were some extinct, buried pipes that didn't lead anywhere, and the other APS staff debated that the readings were likely caused by nearby interferences and meant nothing. APS suggested a GPR survey would be suitable for exploring this further, which would require the area to be fully cleared of potential interference (including the storage containers).

10:40 APS swept the area around each LMM roof drain and confirmed that no pipes led to CB-10, but rather terminated above ground (Photos 9-12). TIG marked up the site map while APS began to demobilize equipment. An updated site figure is provided at the end of this report.

10:55 APS departed the site. TIG summarized findings for the team.

11:35 TIG departed the site.

Prepared By:	Reviewed By:	Approved By:
Rebeca O'Dell	Jill Hedin	Philip Spadaro
Staff Geologist	Project Manager	Project Director

Photograph Log



Photograph 1: Results of the camera survey from CB-11 (not pictured) to CB-08 (pictured).



Photograph 2: Another view of the camera survey results from CB-11 (not pictured) to CB-08 (pictured).



Photograph 3: The depth of subsurface pipe ranged from 1 ft to 2 ft 2 in below ground surface (bgs).



Photograph 4: APS parked near CB-10 for the camera survey.



Photograph 5: Results of the camera survey from CB-10 to the Tire Factory roof drain.



Photograph 6: Another view of the camera survey results from CB-10 (pictured) to the Tire Factory roof drain (not pictured). The depth of subsurface pipe was 3 ft bgs.



Photograph 7: The camera's light was visible at the bottom of the Tire Factory roof drain.



Photograph 8: The fenced area within Legacy Master Marine was cluttered with equipment.



Photograph 9: The termini of all Legacy Master Marine roof drains were found above ground.



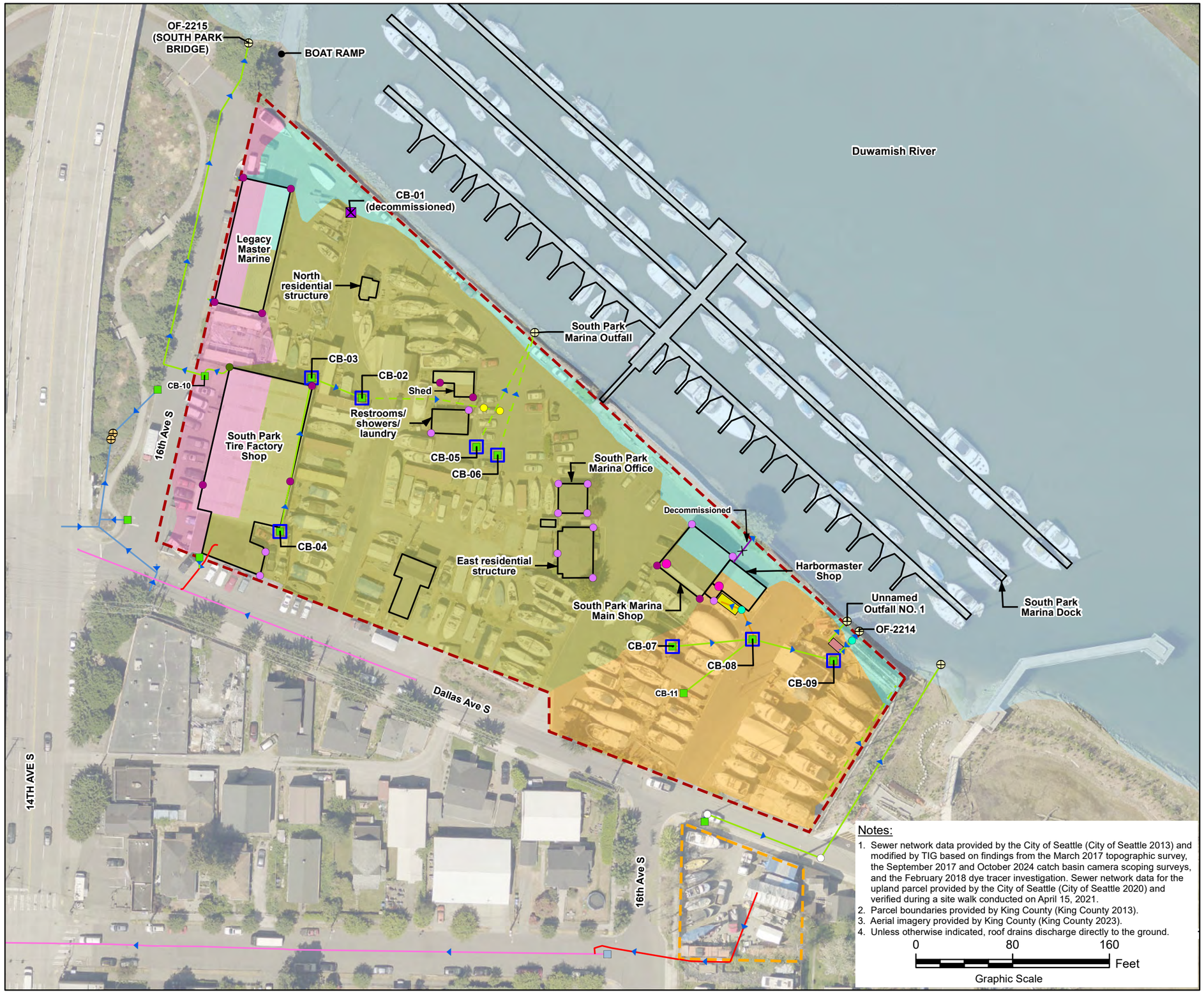
Photograph 10: A closer view of a Legacy Master Marine roof drain.



Photograph 11: The termini of all Legacy Master Marine roof drains were found above ground.



Photograph 12: A closer view of a Legacy Master Marine roof drain.



Legend:

- Catch basin/inlet
- Outfall
- Inflow pipe
- Manhole
- Roof drain
- Roof drain connected to conveyance
- Roof drain associated with metal roof
- Sewer pipe, unknown drainage destination
- Pump station
- Flush tank
- Pump vault
- Sanitary sewer vault
- Catch basin insert
- Decommissioned catch basin
- Decommissioned sewer pipe
- Bio-infiltration system
- Sanitary sewer pipe
- Storm sewer pipe
- Unknown link - stormwater system
- Combined sewer pipe
- Vessel wash collection pipe
- Structure
- StormwateRx™ CONEX box
- Washwater treatment CONEX box
- Duwamish River (approximate)
- South Park Marina site boundary
- Upland parcel

Site catchment areas:

- Infiltrates through gravel surface (CA-04)
- Unnamed Outfall No. 1/OF-2214 (CA-02)
- OF-2215 (CA-03)
- South Park Marina Outfall (CA-01)

Notes:

1. Sewer network data provided by the City of Seattle (City of Seattle 2013) and modified by TIG based on findings from the March 2017 topographic survey, the September 2017 and October 2024 catch basin camera scoping surveys, and the February 2018 dye tracer investigation. Sewer network data for the upland parcel provided by the City of Seattle (City of Seattle 2020) and verified during a site walk conducted on April 15, 2021.
2. Parcel boundaries provided by King County (King County 2013).
3. Aerial imagery provided by King County (King County 2023).
4. Unless otherwise indicated, roof drains discharge directly to the ground.

0 80 160 Feet

Graphic Scale

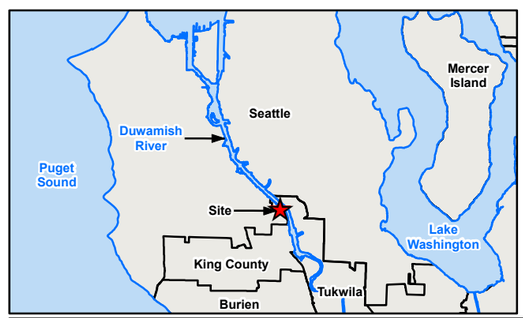


Figure 3

Drainage from South Park Marina Uplands Parcel

South Park Marina

Stormwater Pollution Prevention Plan

TIG environmental® INVESTIGATIONS • FORENSICS • REMEDIATION

Data Location: Syracuse Created By: mkohberger Modified By: kives
G:\GIS\SPMLP\SouthParkMarina\SWPPP\mxd\Storm and Sewer Network System_ExtendedSite_v10.mxd 10/8/2024 10:21:23 AM

APPENDIX A.12

LDW Superfund Site
Remedial Action Area 13
Extents



LEGEND:

- USACE CHANNEL CENTERLINE AND STATIONING (250+00)
- FEDERAL NAVIGATION CHANNEL
- RM 3.0 — RIVER MILE LABEL
- EARLY ACTION AREA
- LDW UPPER REACH APPROXIMATE BOUNDARY
- KING COUNTY SHORELINE HABITAT RESTORATION APPROXIMATE EXTENTS
- 2018 BATHYMETRIC CONTOURS (2' & 10' INTERVALS)
- OUTFALL LOCATION (ACTIVE)
- OUTFALL LOCATION (ABANDONED/INACTIVE)
- OUTFALL LOCATION (REMOVED)
- EXISTING PILE (APPROXIMATE LOCATION)
- EXISTING DOLPHIN (APPROXIMATE LOCATION)
- VERTICAL SAMPLE LOCATION
- 2 — RAL EXCEEDANCE AREA NUMBER
- RAL EXCEEDANCE AREA (5/26/23)
- REMEDIAL ACTION AREA: DREDGING
- REMEDIAL ACTION AREA: ENR

N

0 20 40

SCALE IN FEET

NOTES:

1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83 (2011), U.S. SURVEY FEET
2. VERTICAL DATUM: MLLW
3. AERIAL IMAGE BY ESRI

Windward environmental LLC | ANCHOR QEA

Lower Duwamish Waterway Group
City of Seattle / King County / The Boeing Company

Figure 6-1d. RAA development (RMs 3.49 to 3.56)

100% Remedial Design Basis of Design Report for the LDW Upper Reach — JANUARY 16, 2024

Jan 22, 2024 10:17am tgrigsa \\pala\CAD\Projects\0067-King County\LDW Upper Reach Engineering Services\0067-RP-034 LDWUR BODR Dredge.dwg Figure 6-1d

APPENDIX A.13

T-117 Groundwater Monitoring Data



SEALASKA

N

0 37.5 75 150 Feet

Figure 1-2. T-117 Site Map

Terminal 117
Early Action Area
NTCRA

Table 5 T-117 Groundwater Detections First Quarter 2008 to Second Quarter 2012

Location ID				MW-01	MW-01	MW-01	MW-01	MW-01	MW-01	MW-01	MW-01	MW-01	MW-01	MW-01	MW-01	MW-01	MW-01
Sample ID				MW-1-0308	MW-01-0608	MW-01-0908	MW-01-1208	DUP 1	MW-01-0309	MW-01-0509	MW-01-0809	MW-01-1109	MW-01-0310	MW-01-0610	MW-01-0910	MW-111-0910	MW-01-1210
Sample Date				3/11/2008	6/3/2008	9/11/2008	12/10/2008	12/10/2008	3/30/2009	5/27/2009	8/17/2009	11/3/2009	3/30/2010	6/22/2010	9/22/2010	9/22/2010	12/2/2010
Sample Quarter				1Q	2Q	3Q	4Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	3Q	4Q
Sample Matrix				WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG
Sample Type				N	N	N	N	FD	N	N	N	N	N	N	N	FD	N
Chemical Name	**Total/Disso**	**Unit**	**creening/Action Level**														
Metals																	
Arsenic	D	mg/L	0.005 (RvAL) [1]	< 0.05	0.002	< 0.05	< 0.05	< 0.05	0.003	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	T	mg/L	0.005 (RvAL) [1]	< 0.05	0.002	< 0.05	< 0.05	< 0.05	0.002	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	D	mg/L	1.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	T	mg/L	1.1	< 0.005	< 0.005	< 0.005	0.01	0.005	< 0.005	NA	NA	NA	NA	NA	NA	NA	NA
Copper	D	mg/L	0.0048	< 0.002	< 0.002	0.002	< 0.002	< 0.002	< 0.002	NA	NA	NA	NA	NA	NA	NA	NA
Copper	T	mg/L	0.0048	0.002	< 0.002	0.002	0.011 J	0.004 J	< 0.002	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	D	mg/L	4.6	< 0.01	< 0.01 J	< 0.01	< 0.01	< 0.01	< 0.01	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	T	mg/L	4.6	< 0.01	< 0.01 J	< 0.01	0.01	< 0.01	< 0.01 J	NA	NA	NA	NA	NA	NA	NA	NA
Silver	D	mg/L	0.0019 (RvAL)*	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	NA	NA	NA	NA	NA	NA	NA	NA
Silver	T	mg/L	0.0019 (RvAL)*	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	D	mg/L	0.00047	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	T	mg/L	0.00047	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	D	mg/L	26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	T	mg/L	26	< 0.01	< 0.01	< 0.01	0.02	< 0.01	< 0.01	NA	NA	NA	NA	NA	NA	NA	NA
NWTPH																	
Diesel Range Hydrocarbons	T	mg/L	See Total	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.11	0.062 J	0.043 J	0.063 J
Residual Range Organics (RRO)	T	mg/L	See Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.5	< 0.11	0.160 J	< 0.110	< 0.110
Total Diesel + Residual Range	T	mg/L	0.5 (RvAL)	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.5	< 0.11	0.222	0.043 J	0.063 J
Gasoline Range Organics-NWTPH	T	mg/L	1	NA	NA	NA	NA	NA	NA	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.250	< 0.250	< 0.050
PCB																	
Aroclor 1254	T	ug/L	0.03 [2]	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0049	< 0.0053	< 0.0050	< 0.0050	< 0.0049
Aroclor 1260	T	ug/L	0.03 [2]	< 0.01	< 0.01 J	0.088 AJ	< 0.01	0.017 AJ	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0049	< 0.0053	0.0033	0.0034	0.0031 J
Total PCBs		ug/L	0.01 (RvAL) [2]	< 0.01	< 0.01 J	0.088 AJ	< 0.01	0.017 AJ	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0049	< 0.0053	0.0033	0.0034	0.0031 J
VOCs																	
Carbon Disulfide	T	ug/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	T	ug/L	470	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	T	ug/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichloromethane	T	ug/L	590	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	T	ug/L	2100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m,p-Xylenes	T	ug/L	NV	< 0.4	< 1	< 1	< 0.4	< 0.4	< 1	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	T	ug/L	3.3	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	T	ug/L	15000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	T	ug/L	30	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	T	ug/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cPAH																	
Benzo(a)pyrene	T	ug/L	See Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.02	< 0.02	NA	< 0.02
Benzo(a)anthracene	T	ug/L	See Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.02	< 0.02	NA	< 0.02
Benzo(b)fluoranthene	T	ug/L	See Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.02	< 0.02	NA	< 0.02
Benzo(k)fluoranthene	T	ug/L	See Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.02	< 0.02	NA	< 0.02
Chrysene	T	ug/L	See Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.02	< 0.02	NA	< 0.02
Dibenzo(a,h)anthracene	T	ug/L	See Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.02	< 0.02	NA	< 0.02
Indeno(1,2,3-cd)pyrene	T	ug/L	See Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.02	< 0.02	NA	< 0.02
Total cPAH TEQ	T	ug/L	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.02	< 0.02	NA	< 0.02
SVOC																	
bis(2-Ethylhexyl)phthalate	T	ug/L	1.7 (RvAL) [3]	NA	NA	NA	NA	NA	NA	89	4	< 1	< 0.96	< 1	< 1.1	< 1.0	0.26 J
Butyl Benzyl Phthalate	T	ug/L	1900	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl Phthalate	T	ug/L	4500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	T	ug/L	10000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	T	ug/L	NV	< 0.1	< 0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Conventionals																	
Solids, Volatile Suspended	T	mg/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 5	NA	NA	NA	NA
Total Suspended Solids	T	mg/L	NV	1.2	1.1	< 1	235 J	537 J	< 1	< 1	1.1	< 1	NA	< 5	10.5	10.5	< 5.0
Dioxin/Furans (only detected congeners shown)																	
OCTACHLORODIBENZO-P-DIOXIN	T	pg/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL HEPTACHLORODIBENZO-P-DIOXINS	T	pg/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL HEPTACHLORODIBENZOFURANS	T	pg/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total TEQ Dioxin/Furans	T	ug/L	5.8E-06 [6]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 5 T-117 Groundwater Detections First Quarter 2008 to Second Quarter 2012

Location ID				MW-01	MW-01	MW-01	MW-01	MW-02	MW-02	MW-02	MW-02	MW-02	MW-02	MW-02	MW-02	MW-02	MW-02	MW-02
Sample ID				MW-02-0211	MW-01-0511	MW-01-0811	MW-01-0612	MW-2-0308	MW-02-0608	MW-02-0908	MW-102-0908	MW-02-1208	MW-02-0309	MW-02-0509	MW-02-0809	MW-02-1109	MW-02-0310	MW-02-0610
Sample Date				2/23/2011	5/16/2011	8/9/2011	6/28/2012	3/11/2008	6/3/2008	9/10/2008	9/10/2008	12/9/2008	3/31/2009	5/26/2009	8/18/2009	11/4/2009	3/30/2010	6/23/2010
Sample Quarter				1Q	2Q	3Q	2Q	1Q	2Q	3Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q
Sample Matrix				WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG
Sample Type				N	N	N	N	N	N	N	FD	N	N	N	N	N	N	N
Chemical Name	**Total/Disso**	**Unit**	**creening/Action Leve**															
Metals																		
Arsenic	D	mg/L	0.005 (RvAL) [1]	NA	NA	NA	NA	< 0.05	0.008	0.09	0.11	0.06	0.055	NA	NA	NA	NA	NA
Arsenic	T	mg/L	0.005 (RvAL) [1]	NA	NA	NA	NA	< 0.05	0.07	0.1	0.1	0.06	0.047	NA	NA	NA	NA	NA
Chromium	D	mg/L	1.1	NA	NA	NA	NA	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	NA	NA	NA	NA	NA
Chromium	T	mg/L	1.1	NA	NA	NA	NA	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005 J	NA	NA	NA	NA	NA
Copper	D	mg/L	0.0048	NA	NA	NA	NA	**0.002**	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	NA	NA	NA	NA	NA
Copper	T	mg/L	0.0048	NA	NA	NA	NA	**0.004**	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	NA	NA	NA	NA	NA
Nickel	D	mg/L	4.6	NA	NA	NA	NA	< 0.01	< 0.01 J	< 0.01	< 0.01	< 0.01	< 0.01	NA	NA	NA	NA	NA
Nickel	T	mg/L	4.6	NA	NA	NA	NA	< 0.01	< 0.01 J	< 0.01	< 0.01	< 0.01	< 0.01	NA	NA	NA	NA	NA
Silver	D	mg/L	0.0019 (RvAL)*	NA	NA	NA	NA	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	NA	NA	NA	NA	NA
Silver	T	mg/L	0.0019 (RvAL)*	NA	NA	NA	NA	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	NA	NA	NA	NA	NA
Thallium	D	mg/L	0.00047	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	T	mg/L	0.00047	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	D	mg/L	26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	T	mg/L	26	NA	NA	NA	NA	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	NA	NA	NA	NA	NA
NWTPH																		
Diesel Range Hydrocarbons	T	mg/L	See Total	**0.064** J	**0.091** J	**0.064** J	**0.075** J	**0.7**	**0.74**	**0.79**	**0.67** J	**0.84**	**0.69**	**0.82**	**0.95**	**0.8**	**0.78** J	**0.92** J
Residual Range Organics (RRO)	T	mg/L	See Total	< 0.140	< 0.220	< 0.120	**0.17** J	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**< 0.5**	**0.34** J
Total Diesel + Residual Range	T	mg/L	0.5 (RvAL)	**0.064** J	**0.091** J	**0.064** J	**0.245**	**0.7**	**0.74**	**0.79**	**0.67** J	**0.84**	**0.69**	**0.82**	**0.95**	**0.8**	**0.78** J	**1.26**
Gasoline Range Organics-NWTPH	T	mg/L	1	< 0.250	< 0.250	< 0.250	< 0.250	NA	NA	NA	NA	NA	NA	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
PCB																		
Aroclor 1254	T	ug/L	0.03 [2]	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.011	< 0.01	< 0.0049	< 0.005
Aroclor 1260	T	ug/L	0.03 [2]	< 0.0050	< 0.0050	**0.0021** J	< 0.0050	< 0.01	**0.012 AJ**	< 0.01	< 0.01	< 0.01	< 0.01	**< 0.011**	**0.057**	< 0.01	< 0.0049	**0.0053**
Total PCBs		ug/L	0.01 (RvAL) [2]	< 0.0050	< 0.0050	**0.0021** J	ND	< 0.01	**0.012 AJ**	< 0.01	< 0.01	< 0.01	< 0.01	**< 0.011**	**0.057**	< 0.01	< 0.0049	**0.0053**
VOCs																		
Carbon Disulfide	T	ug/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	T	ug/L	470	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	T	ug/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichloromethane	T	ug/L	590	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	T	ug/L	2100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m,p-Xylenes	T	ug/L	NV	NA	NA	NA	NA	< 0.4	< 1	< 1	< 1	< 1	< 0.4	NA	NA	NA	NA	NA
Tetrachloroethene	T	ug/L	3.3	NA	NA	NA	NA	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	NA	NA	NA	NA	NA
Toluene	T	ug/L	15000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	T	ug/L	30	NA	NA	NA	NA	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	T	ug/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cPAH																		
Benzo(a)pyrene	T	ug/L	See Total	< 0.02	< 0.02	< 0.02	< 0.020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.02
Benzo(a)anthracene	T	ug/L	See Total	< 0.02	< 0.02	< 0.02	< 0.020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.02
Benzo(b)fluoranthene	T	ug/L	See Total	< 0.02	< 0.02	< 0.02	< 0.020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.02
Benzo(k)fluoranthene	T	ug/L	See Total	< 0.02	< 0.02	< 0.02	< 0.020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.02
Chrysene	T	ug/L	See Total	< 0.02	< 0.02	< 0.02	< 0.020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.02
Dibenzo(a,h)anthracene	T	ug/L	See Total	< 0.02	< 0.02	< 0.02	< 0.020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.02
Indeno(1,2,3-cd)pyrene	T	ug/L	See Total	< 0.02	< 0.02	< 0.02	< 0.020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.02
Total cPAH TEQ	T	ug/L	0.15	< 0.02	< 0.02	< 0.02	< 0.015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.02
SVOC																		
bis(2-Ethylhexyl)phthalate	T	ug/L	1.7 (RvAL) [3]	< 0.99	< 1.0	< 1.0	< 1.2	NA	NA	NA	NA	NA	NA	< 1.0	< 1.0	NA	< 0.95	< 0.97
Butyl Benzyl Phthalate	T	ug/L	1900	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl Phthalate	T	ug/L	4500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	T	ug/L	10000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	T	ug/L	NV	NA	NA	NA	NA	< 0.1	< 0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Conventionals																		
Solids, Volatile Suspended	T	mg/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**5**	NA
Total Suspended Solids	T	mg/L	NV	< 5.0	< 5.0	< 5.0	< 5.0	**9**	**150**	**122**	**113**	**95.6**	**28**	**38**	**86.4**	**81**	NA	**116**
Dioxin/Furans (only detected congeners shown)																		
OCTACHLORODIBENZO-P-DIOXIN	T	pg/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL HEPTACHLORODIBENZO-P-DIOXINS	T	pg/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL HEPTACHLORODIBENZOFURANS	T	pg/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total TEQ Dioxin/Furans	T	ug/L	5.8E-06 [6]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 5 T-117 Groundwater Detections First Quarter 2008 to Second Quarter 2012

Location ID				MW-02	MW-02	MW-02	MW-02	MW-02	MW-02	MW-03	MW-03	MW-03	MW-03	MW-03	MW-03	MW-04R	MW-04R
Sample ID				MW-02-0910	MW-02-1210	MW-02-0211	MW-02-0511	MW-02-0811	MW-02-0612	MW-3-0308	MW-03-0608	MW-03-0908	MW-03-1208	MW-03-121108	MW-03-0511	MW-4R-0308	MW-04R-0608
Sample Date				9/22/2010	12/1/2010	2/22/2011	5/16/2011	8/9/2011	6/28/2012	3/11/2008	6/4/2008	9/10/2008	12/9/2008	12/11/2008	5/17/2011	3/11/2008	6/4/2008
Sample Quarter				3Q	4Q	1Q	2Q	3Q	2Q	1Q	2Q	3Q	4Q	4Q	2Q	1Q	2Q
Sample Matrix				WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG
Sample Type				N	N	N	N	N	N	N	N	N	N	N	N	N	N
Chemical Name	**Total/Disso**	**Unit**	**creening/Action Leve**														
Metals																	
Arsenic	D	mg/L	0.005 (RvAL) [1]	NA	NA	NA	NA	NA	NA	< 0.05	0.024	< 0.05	< 0.05	NA	NA	< 0.05	**0.002**
Arsenic	T	mg/L	0.005 (RvAL) [1]	NA	NA	NA	NA	NA	NA	< 0.05	0.023	< 0.05	NA	< 0.05	NA	< 0.05	< 0.001
Chromium	D	mg/L	1.1	NA	NA	NA	NA	NA	NA	< 0.005	< 0.005	< 0.005	< 0.005	NA	NA	< 0.005	< 0.005
Chromium	T	mg/L	1.1	NA	NA	NA	NA	NA	NA	**0.006**	< 0.005	**0.012**	NA	**0.013**	NA	**0.006**	< 0.005
Copper	D	mg/L	0.0048	NA	NA	NA	NA	NA	NA	< 0.002	< 0.002	< 0.002	< 0.002	NA	NA	**0.003**	< 0.002
Copper	T	mg/L	0.0048	NA	NA	NA	NA	NA	NA	0.01	< 0.002	0.024	NA	0.014	NA	**0.004**	< 0.002
Nickel	D	mg/L	4.6	NA	NA	NA	NA	NA	NA	< 0.01	< 0.01 J	< 0.01	< 0.01	NA	NA	< 0.01	< 0.01 J
Nickel	T	mg/L	4.6	NA	NA	NA	NA	NA	NA	< 0.01	< 0.01	< 0.01	NA	< 0.01	NA	< 0.01	< 0.01 J
Silver	D	mg/L	0.0019 (RvAL)*	NA	NA	NA	NA	NA	NA	< 0.003	< 0.003	< 0.003	< 0.003	NA	NA	0.004	< 0.003
Silver	T	mg/L	0.0019 (RvAL)*	NA	NA	NA	NA	NA	NA	< 0.003	< 0.003 J	< 0.003	NA	< 0.003 J	NA	0.003	< 0.003
Thallium	D	mg/L	0.00047	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	T	mg/L	0.00047	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	D	mg/L	26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	T	mg/L	26	NA	NA	NA	NA	NA	NA	**0.01**	< 0.01	**0.02**	NA	**0.03**	NA	< 0.01	< 0.01
NWTPH																	
Diesel Range Hydrocarbons	T	mg/L	See Total	**1.2** YJ	**0.570** YJ	**0.680** Y,J	**0.680** H,J	**1.2** Y	**1.10** J	**4.2**	**3**	**4**	NA	**11**	**8.10** H,J	< 0.25	< 0.25
Residual Range Organics (RRO)	T	mg/L	See Total	**0.450** J	**0.300** OJ	**0.420** O,J	**0.620** O,J	**0.450** O	**0.520** J	**3.3**	**0.85**	**1.2**	NA	3.9	**11** O,J	NA	NA
Total Diesel + Residual Range	T	mg/L	0.5 (RvAL)	**1.65**	**0.87**	**1.1**	**1.3**	**1.65**	**1.62**	**7.5**	**3.85**	**5.2**	NA	**14.9**	**19.10**	< 0.25	< 0.25
Gasoline Range Organics-NWTPH	T	mg/L	1	**0.015**	**0.015** J	**0.017** J	**0.015** J	**0.015** J	**0.014** J	NA	NA	NA	NA	NA	**0.059** J	NA	NA
PCB																	
Aroclor 1254	T	ug/L	0.03 [2]	< 0.005	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0049	< 0.011	< 0.01	< 0.01	NA	**< 0.59 Y**	NA	< 0.01	< 0.01
Aroclor 1260	T	ug/L	0.03 [2]	**0.0051** J	< 0.0050	< 0.0050	< 0.0050	**0.0043** J	< 0.0049	**2**	< 0.01 J	**0.52 AJ**	NA	**1.2 AJ**	NA	< 0.01	< 0.01 J
Total PCBs		ug/L	0.01 (RvAL) [2]	**0.0051** J	< 0.0050	< 0.0050	< 0.0050	**0.0043** J	< 0.0049	**2**	< 0.01 J	**0.52 AJ**	NA	**1.2 AJ**	NA	< 0.01	< 0.01 J
VOCs																	
Carbon Disulfide	T	ug/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	T	ug/L	470	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	T	ug/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichloromethane	T	ug/L	590	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	T	ug/L	2100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m,p-Xylenes	T	ug/L	NV	NA	NA	NA	NA	NA	NA	**0.7**	< 0.4	< 0.4	< 0.4	NA	NA	< 1	< 1
Tetrachloroethene	T	ug/L	3.3	NA	NA	NA	NA	NA	NA	< 0.2	< 0.2	< 0.2	< 0.2	NA	NA	< 0.2	< 0.2
Toluene	T	ug/L	15000	NA	NA	NA	NA	NA	NA	NA	NA	< 0.2	< 0.2	NA	NA	NA	NA
Trichloroethene	T	ug/L	30	NA	NA	NA	NA	NA	NA	< 0.2	< 0.2	< 0.2	< 0.2	NA	NA	< 0.2	< 0.2
1,2,4-Trimethylbenzene	T	ug/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cPAH																	
Benzo(a)pyrene	T	ug/L	See Total	NA	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	T	ug/L	See Total	NA	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	T	ug/L	See Total	NA	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	T	ug/L	See Total	NA	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	T	ug/L	See Total	NA	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	T	ug/L	See Total	NA	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	T	ug/L	See Total	NA	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	NA	NA	NA	NA	NA	NA	NA	NA
Total cPAH TEQ	T	ug/L	0.15	NA	< 0.02	< 0.02	< 0.02	< 0.02	< 0.015	NA	NA	NA	NA	NA	NA	NA	NA
SVOC																	
bis(2-Ethylhexyl)phthalate	T	ug/L	1.7 (RvAL) [3]	< 1.0	< 0.96	< 0.98	**0.26** J	< 0.99	< 0.97	NA	NA	NA	NA	NA	NA	NA	NA
Butyl Benzyl Phthalate	T	ug/L	1900	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl Phthalate	T	ug/L	4500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	T	ug/L	10000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	T	ug/L	NV	NA	NA	NA	NA	NA	NA	**0.19**	**0.47 J**	NA	NA	NA	NA	< 0.1	< 0.1
Conventionals																	
Solids, Volatile Suspended	T	mg/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids	T	mg/L	NV	**13**	**96**	**92**	**59**	**83.5**	**11.5**	**82.5**	**1,460** J	**3,140**	NA	NA	NA	**2.1**	< 1.1
Dioxin/Furans (only detected congeners shown)																	
OCTACHLORODIBENZO-P-DIOXIN	T	pg/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL HEPTACHLORODIBENZO-P-DIOXINS	T	pg/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL HEPTACHLORODIBENZOFURANS	T	pg/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total TEQ Dioxin/Furans	T	ug/L	5.8E-06 [6]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 5 T-117 Groundwater Detections First Quarter 2008 to Second Quarter 2012

			Location ID	MW-04R	MW-04R	MW-04R	MW-05R	MW-05R	MW-05R	MW-05R	MW-05R	MW-05R	MW-05R	MW-05R	MW-05R	MW-05R	MW-05R	MW-05R
			Sample ID	MW-04R-0908	MW-04R-1208	MW-04R-0309	MW-5-0308	MW-05R-0608	MW-05R-0908	MW-05R-1208	MW-05R-0309	MW-05R-0509	MW-05R-0809	MW-05R-1109	MW-05R-0310	MW-05R-0610	MW-15R-0610	MW-05R-0910
			Sample Date	9/11/2008	12/9/2008	3/30/2009	3/11/2008	6/3/2008	9/10/2008	12/9/2008	3/31/2009	5/26/2009	8/17/2009	11/4/2009	3/30/2010	6/22/2010	6/22/2010	9/23/2010
			Sample Quarter	3Q	4Q	1Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	2Q	3Q
			Sample Matrix	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG
			Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	FD	N
Chemical Name	**Total/Disso**	**Unit**	**creening/Action Leve**															
Metals																		
Arsenic	D	mg/L	0.005 (RvAL) [1]	< 0.2	< 0.1	< 0.005	< 0.05	0.004	< 0.05	< 0.05	0.002	< 0.05	< 0.0008	0.002	0.001	0.0034	0.0035	0.00150
Arsenic	T	mg/L	0.005 (RvAL) [1]	< 0.2	< 0.1	< 0.005	< 0.05	0.005	< 0.05	< 0.05	0.002	< 0.05	< 0.002	0.0022	0.00121	0.0035	0.0036	0.00145
Chromium	D	mg/L	1.1	< 0.02	< 0.01	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005 J	< 0.005	< 0.005	< 0.005	< 0.002 J	< 0.002	< 0.002	< 0.002	0.0013 J
Chromium	T	mg/L	1.1	< 0.02	< 0.01	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002 J	< 0.002	< 0.002	< 0.002	0.0013 J
Copper	D	mg/L	0.0048	< 0.01	0.005	< 0.004	< 0.002	< 0.002	0.004	< 0.002	< 0.002	< 0.002	0.002	0.006	< 0.002	< 0.002	< 0.002	< 0.002	0.0008 J
Copper	T	mg/L	0.0048	< 0.01	0.004	< 0.004	< 0.002	< 0.002	0.004	0.002	< 0.002	< 0.002	0.002	0.007	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Nickel	D	mg/L	4.6	< 0.05	< 0.02	< 0.02	< 0.01	< 0.01 J	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Nickel	T	mg/L	4.6	< 0.05	< 0.02	< 0.02	< 0.01	< 0.01 J	< 0.01	< 0.01	< 0.01 J	< 0.01	< 0.01	0.02	< 0.002	< 0.002	< 0.002	< 0.002	
Silver	D	mg/L	0.0019 (RvAL)*	0.02	0.007	< 0.006	< 0.003	< 0.003	0.004	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.002	< 0.002	< 0.002	< 0.002	0.000016 J
Silver	T	mg/L	0.0019 (RvAL)*	0.03	< 0.006	< 0.006	< 0.003	< 0.003	0.005	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.002	< 0.002	< 0.002	< 0.002	0.000015 J
Thallium	D	mg/L	0.00047	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.05	< 0.01	< 0.01	< 0.01	< 0.01	0.000021 J
Thallium	T	mg/L	0.00047	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.05	< 0.01	< 0.01	< 0.01	< 0.01	0.000020 J
Zinc	D	mg/L	26	NA	NA	NA	NA	NA	NA	NA	NA	< 0.01	0.01	< 0.01	0.0026	< 0.002	< 0.002	0.0017 J	
Zinc	T	mg/L	26	< 0.05	< 0.02	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.01	< 0.01	0.0028	< 0.002	< 0.002	0.0019 J	
NWTPH																		
Diesel Range Hydrocarbons	T	mg/L	See Total	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.11	NA	0.017 J
Residual Range Organics (RRO)	T	mg/L	See Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.5	< 0.11	NA	< 0.110
Total Diesel + Residual Range	T	mg/L	0.5 (RvAL)	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.5	< 0.11	NA	0.017 J
Gasoline Range Organics-NWTPH	T	mg/L	1	NA	NA	NA	NA	NA	NA	NA	NA	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	NA	< 0.250
PCB																		
Aroclor 1254	T	ug/L	0.03 [2]	< 0.01	< 0.01	< 0.01 J	< 0.01	0.017 J	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0049	< 0.005	NA	< 0.0050	
Aroclor 1260	T	ug/L	0.03 [2]	< 0.01	< 0.01	< 0.01 J	0.057	0.039 J	0.014 AJ	0.01 AJ	< 0.01	0.028 AJ	< 0.01	0.011 AJ	0.006	0.045	NA	0.0037 J	
Total PCBs		ug/L	0.01 (RvAL) [2]	< 0.01	< 0.01	< 0.01 J	0.057	0.039 J	0.014 AJ	0.01 AJ	< 0.01	0.028 AJ	< 0.01	0.011 AJ	0.006	0.045	NA	0.0037 J	
VOCs																		
Carbon Disulfide	T	ug/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chloroform	T	ug/L	470	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chloromethane	T	ug/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dichloromethane	T	ug/L	590	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Ethylbenzene	T	ug/L	2100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
m,p-Xylenes	T	ug/L	NV	< 0.4	< 0.4	< 1	< 0.4	< 0.4	< 1	< 0.4	< 1	NA	NA	NA	NA	NA	NA	NA	
Tetrachloroethene	T	ug/L	3.3	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	NA	NA	NA	NA	NA	NA	NA	
Toluene	T	ug/L	15000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Trichloroethene	T	ug/L	30	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	NA	NA	NA	NA	NA	NA	NA	
1,2,4-Trimethylbenzene	T	ug/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
cPAH																		
Benzo(a)pyrene	T	ug/L	See Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.021	NA	< 0.02	
Benzo(a)anthracene	T	ug/L	See Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.021	NA	< 0.02	
Benzo(b)fluoranthene	T	ug/L	See Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.021	NA	< 0.02	
Benzo(k)fluoranthene	T	ug/L	See Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.021	NA	< 0.02	
Chrysene	T	ug/L	See Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.021	NA	< 0.02	
Dibenzo(a,h)anthracene	T	ug/L	See Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.021	NA	< 0.02	
Indeno(1,2,3-cd)pyrene	T	ug/L	See Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.021	NA	< 0.02	
Total cPAH TEQ	T	ug/L	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.032	NA	< 0.030	
SVOC																		
bis(2-Ethylhexyl)phthalate	T	ug/L	1.7 (RvAL) [3]	NA	NA	NA	NA	NA	NA	NA	NA	< 1	< 1	< 1	< 0.95	< 1	NA	< 3.8	
Butyl Benzyl Phthalate	T	ug/L	1900	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Di-n-butyl Phthalate	T	ug/L	4500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Phenol	T	ug/L	10000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Naphthalene	T	ug/L	NV	NA	NA	NA	< 0.1	< 0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Conventionals																		
Solids, Volatile Suspended	T	mg/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 5	NA	NA	NA	
Total Suspended Solids	T	mg/L	NV	2.9	1.8	1.3	72.6	7.1	3.3	3.3	< 1	14.5	< 2.2	< 1	NA	5	NA	15	
Dioxin/Furans (only detected congeners shown)																		
OCTACHLORODIBENZO-P-DIOXIN	T	pg/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
TOTAL HEPTACHLORODIBENZO-P-DIOXINS	T	pg/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
TOTAL HEPTACHLORODIBENZOFURANS	T	pg/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Total TEQ Dioxin/Furans	T	ug/L	5.8E-06 [6]	NA	NA	NA	NA	NA	NA	2.7E-06	NA	NA	NA	NA	NA	NA	NA	NA	

Table 5 T-117 Groundwater Detections First Quarter 2008 to Second Quarter 2012

Location ID				MW-05R	MW-05R	MW-05R	MW-05R	MW-05R	MW-06	MW-06	MW-06	MW-06	MW-07	MW-07	MW-07	MW-07	MW-07	MW-07
Sample ID				MW-05R-1210	MW-05R-0211	MW-05R-0511	MW-05R-0811	MW-05R-0612	MW-6-0308	MW-06-0608	MW-06-0908	MW-06-040809	MW-7-0308	MW-7-041808	MW-07-0608	MW-07-0908	MW-07-1208	MW-07-0309
Sample Date				12/2/2010	2/23/2011	5/13/2011	8/9/2011	6/28/2012	3/13/2008	6/5/2008	9/11/2008	4/8/2009[1]	3/12/2008	4/18/2008	6/4/2008	9/10/2008	12/11/2008	3/30/2009
Sample Quarter				4Q	1Q	2Q	3Q	2Q	1Q	2Q	3Q	1Q	1Q	2Q	2Q	3Q	4Q	1Q
Sample Matrix				WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG
Sample Type				N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Chemical Name	**Total/Disso**	**Unit**	**creening/Action Leve**															
Metals																		
Arsenic	D	mg/L	0.005 (RvAL) [1]	**0.00142** J	**0.00178**	**0.00445**	**0.00104**	**0.0026**	< **0.05**	< **0.001** J+	< **0.05**	**0.002**	< **0.05**	NA	< 0.001	< **0.05**	< **0.05**	< 0.001
Arsenic	T	mg/L	0.005 (RvAL) [1]	**0.00154** J	**0.00191**	**0.00431**	**0.00122**	**0.0025**	< **0.05**	< **0.001** J+	< **0.05**	**0.002**	< **0.05**	NA	< 0.001	< **0.05**	< **0.05**	< 0.001
Chromium	D	mg/L	1.1	**0.0012** J	**0.0008** J	< 0.002 UJ	**0.0007** J	**0.0009** J	< 0.005	< 0.005	< 0.005	< 0.005 J	< 0.005	NA	< 0.005	< 0.005	< 0.005	< 0.005 J
Chromium	T	mg/L	1.1	**0.0025**	**0.0008** J	< 0.002 UJ	< 0.002	< 0.002	< 0.005	< 0.005	< 0.005	< 0.005 J	< 0.005	NA	< 0.005	< 0.005	< 0.005	< 0.005
Copper	D	mg/L	0.0048	< 0.002 UJ	< 0.002	< 0.002	< 0.002	**0.0011** J	**0.006**	**0.005**	**0.005**	**0.009**	< 0.002	NA	< 0.002	**0.002**	< 0.002	< 0.002
Copper	T	mg/L	0.0048	< 0.002 UJ	< 0.002	< 0.002	< 0.002	**0.0017** J	**0.007**	**0.008**	**0.01**	**0.01**	< 0.002	NA	< 0.002	**0.002**	< 0.002	< 0.002
Nickel	D	mg/L	4.6	< 0.002	< 0.002	< 0.002	**0.0015** J	**0.0024** J	< 0.01	< 0.01 J	< 0.01	< 0.01 J	< 0.01	NA	< 0.01 J	< 0.01	< 0.01	< 0.01
Nickel	T	mg/L	4.6	**0.0013** J	< 0.002	< 0.002	**0.0011** J	**0.002** J	< 0.01	< 0.01 J	< 0.01	< 0.01 J	< 0.01	NA	< 0.01 J	< 0.01	< 0.01	< 0.01 J
Silver	D	mg/L	0.0019 (RvAL)*	**0.000005** J	**0.000006** J	< 0.00002	< 0.00002	< 0.00002	< **0.003**	< **0.003**	**0.003**	< **0.003**	< **0.003**	NA	< **0.003**	< **0.003**	< **0.003** J	< **0.003**
Silver	T	mg/L	0.0019 (RvAL)*	**0.000005** J	< 0.00002	< 0.00002	< 0.00002	< 0.00002	**0.003**	< **0.003**	**0.005**	< **0.003**	< **0.003**	NA	< **0.003**	< **0.003**	< **0.003** J	< **0.003**
Thallium	D	mg/L	0.00047	< 0.00003	< 0.00003	< 0.00002	**0.000015** J	< 0.00002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	T	mg/L	0.00047	< 0.00003	< 0.00003	< 0.00002	**0.000016** J	< 0.00002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	D	mg/L	26	**0.0018** J	< 0.002 UJ	**0.0394**	**0.0028**	**0.0007** J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	T	mg/L	26	**0.0014** J	< 0.002 UJ	**0.0042**	**0.0025**	**0.001** J	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	NA	< 0.01	< 0.01	< 0.01	< 0.01
NWTPH																		
Diesel Range Hydrocarbons	T	mg/L	See Total	< 0.110	**0.012** J	< 0.110	**0.014** J	**0.016** J	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	NA	< 0.25	< 0.25	< 0.25	< 0.25
Residual Range Organics (RRO)	T	mg/L	See Total	< 0.110	< 0.110	< 0.110	< 0.110	< 0.110	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Diesel + Residual Range	T	mg/L	0.5 (RvAL)	< 0.110	**0.012** J	< 0.110	**0.014** J	**0.016**	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	NA	< 0.25	< 0.25	< 0.25	< 0.25
Gasoline Range Organics-NWTPH	T	mg/L	1	< 0.050	< 0.250	< 0.250	< 0.250	< 0.250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB																		
Aroclor 1254	T	ug/L	0.03 [2]	< 0.0049	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.01	< 0.01	< 0.01	< 0.025 Y	< 0.01	< 0.010	< 0.01	< 0.01	< 0.01	< 0.01
Aroclor 1260	T	ug/L	0.03 [2]	**0.0056**	**0.0086**	**0.0071**	**0.0058**	**0.0034** NJ	**0.082**	**0.76** AJ	**0.026** AJ	**0.068**	**0.036**	< 0.010	< 0.01 J	< 0.01	< 0.01	< 0.01
Total PCBs		ug/L	0.01 (RvAL) [2]	**0.0056**	**0.0086**	**0.0071**	**0.0058**	**0.0034**	**0.082**	**0.76** AJ	**0.026** AJ	**0.068**	**0.036**	< 0.010	< 0.01 J	< 0.01	< 0.01	< 0.01
VOCs																		
Carbon Disulfide	T	ug/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	T	ug/L	470	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	T	ug/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichloromethane	T	ug/L	590	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	T	ug/L	2100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m,p-Xylenes	T	ug/L	NV	NA	NA	NA	NA	NA	< 0.4	< 1	< 0.4	< 0.4	< 0.4	NA	< 1	< 1	< 0.4	< 1
Tetrachloroethene	T	ug/L	3.3	NA	NA	NA	NA	NA	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	NA	< 0.2	< 0.2	< 0.2	< 0.2
Toluene	T	ug/L	15000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	T	ug/L	30	NA	NA	NA	NA	NA	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	NA	< 0.2	< 0.2	< 0.2	< 0.2
1,2,4-Trimethylbenzene	T	ug/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cPAH																		
Benzo(a)pyrene	T	ug/L	See Total	< 0.02	**0.014** J	< 0.02	< 0.021	< 0.020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	T	ug/L	See Total	< 0.02	**0.022**	< 0.02	< 0.021	< 0.020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	T	ug/L	See Total	< 0.02	**0.016** J	< 0.02	< 0.021	< 0.020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	T	ug/L	See Total	< 0.02	**0.0077** J	< 0.02	< 0.021	< 0.020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	T	ug/L	See Total	< 0.02	**0.022**	< 0.02	< 0.021	< 0.020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	T	ug/L	See Total	< 0.02	< 0.020	< 0.02	< 0.021	< 0.020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	T	ug/L	See Total	< 0.02	**0.0067** J	< 0.02	< 0.021	< 0.020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total cPAH TEQ	T	ug/L	0.15	< 0.030	**0.021**	< 0.030	< 0.032	< 0.015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOC																		
bis(2-Ethylhexyl)phthalate	T	ug/L	1.7 (RvAL) [3]	< 1.0	< 1.1	< 1.0	< 0.97	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl Benzyl Phthalate	T	ug/L	1900	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl Phthalate	T	ug/L	4500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	T	ug/L	10000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	T	ug/L	NV	NA	NA	NA	NA	NA	< 0.1	< 0.1	NA	NA	< 0.1	NA	< 0.1	NA	NA	NA
Conventionals																		
Solids, Volatile Suspended	T	mg/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids	T	mg/L	NV	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**7.7**	**4.1**	**9.5**	NA	< 1.1	< 2.2	< 1.1	< 1.1	< 1	< 1
Dioxin/Furans (only detected congeners shown)																		
OCTACHLORODIBENZO-P-DIOXIN	T	pg/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL HEPTACHLORODIBENZO-P-DIOXINS	T	pg/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL HEPTACHLORODIBENZOFURANS	T	pg/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total TEQ Dioxin/Furans	T	ug/L	5.8E-06 [6]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 5 T-117 Groundwater Detections First Quarter 2008 to Second Quarter 2012

			Location ID	MW-07	MW-07	MW-07	MW-07	MW-07	MW-07	MW-07	MW-07	MW-07	MW-07	MW-07	MW-08R	MW-08R	MW-08R	MW-08R
			Sample ID	MW-07-0509	MW-07-00817	MW-07-1109	MW-07-0310	MW-07-0610	MW-07-0910	MW-07-1210	MW-07-0211	MW-07-0511	MW-07-0811	MW-07-0612	MW-8-0308	MW-08R-0608	MW-08R-0908	MW-08R-1208
			Sample Date	5/26/2009	8/17/2009	11/3/2009	3/30/2010	6/22/2010	9/23/2010	12/1/2010	2/23/2011	5/16/2011	8/9/2011	6/28/2012	3/12/2008	6/4/2008	9/10/2008	12/9/2008
			Sample Quarter	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	2Q	1Q	2Q	3Q	4Q
			Sample Matrix	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG
			Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Chemical Name	**Total/Disso**	**Unit**	**creening/Action Leve**															
Metals																		
Arsenic	D	mg/L	0.005 (RvAL) [1]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.05	0.002	< 0.2	< 0.1
Arsenic	T	mg/L	0.005 (RvAL) [1]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.05	0.002	< 0.2	< 0.05
Chromium	D	mg/L	1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.005	< 0.005	< 0.02	< 0.01
Chromium	T	mg/L	1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.005	< 0.005	< 0.02	< 0.005
Copper	D	mg/L	0.0048	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.002	< 0.002	< 0.01	< 0.004
Copper	T	mg/L	0.0048	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.004	< 0.002	< 0.01	0.003
Nickel	D	mg/L	4.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.01	< 0.01 J	< 0.05	< 0.02
Nickel	T	mg/L	4.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.01	< 0.01 J	< 0.05	< 0.01
Silver	D	mg/L	0.0019 (RvAL)*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.003	< 0.003	0.03	< 0.006
Silver	T	mg/L	0.0019 (RvAL)*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005	< 0.003	0.02	0.004
Thallium	D	mg/L	0.00047	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.05	< 0.01
Thallium	T	mg/L	0.00047	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	D	mg/L	26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	T	mg/L	26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.01	< 0.01	< 0.05	< 0.01
NWTPH																		
Diesel Range Hydrocarbons	T	mg/L	See Total	< 0.25	< 0.25	< 0.25	< 0.25	< 0.11	0.028 J	0.024 J	0.024 J	< 0.110	0.018 J	0.029 J	< 0.25	< 0.25	< 0.25	< 0.25
Residual Range Organics (RRO)	T	mg/L	See Total	NA	NA	NA	< 0.5	< 0.11	< 0.110	< 0.110	< 0.120	< 0.140	< 0.120	< 0.120	NA	NA	NA	NA
Total Diesel + Residual Range	T	mg/L	0.5 (RvAL)	< 0.25	< 0.25	< 0.25	< 0.5	< 0.11	0.028 J	0.024 J	0.024 J	< 0.140	0.018 J	0.029	< 0.25	< 0.25	< 0.25	< 0.25
Gasoline Range Organics-NWTPH	T	mg/L	1	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.250	< 0.050	< 0.250	< 0.250	< 0.250	< 0.250	NA	NA	NA	NA
PCB																		
Aroclor 1254	T	ug/L	0.03 [2]	< 0.01	< 0.01	0.015 AJ	< 0.0049	0.0055	< 0.0050	< 0.0049	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.01	0.029	< 0.01	< 0.01
Aroclor 1260	T	ug/L	0.03 [2]	0.016 AJ	< 0.01	0.017 AJ	0.021	0.0056	0.0071	0.0061	0.0060	0.0042	0.0032 J	0.0090	< 0.01	0.049 J	< 0.01	< 0.01
Total PCBs		ug/L	0.01 (RvAL) [2]	0.016 AJ	< 0.01	0.032 AJ	0.021	0.0111 J	0.0071	0.0061	0.0060	0.0042	0.0032 J	0.0090	< 0.01	0.078	< 0.01	< 0.01
VOCs																		
Carbon Disulfide	T	ug/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	T	ug/L	470	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	T	ug/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichloromethane	T	ug/L	590	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	T	ug/L	2100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m,p-Xylenes	T	ug/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	< 0.4	< 1	< 0.4	< 0.4
Tetrachloroethene	T	ug/L	3.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.2	< 0.2	< 0.2	< 0.2
Toluene	T	ug/L	15000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	T	ug/L	30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.2	< 0.2	NA	NA
1,2,4-Trimethylbenzene	T	ug/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.2	< 0.2
cPAH																		
Benzo(a)pyrene	T	ug/L	See Total	NA	NA	NA	NA	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.020	NA	NA	NA	NA
Benzo(a)anthracene	T	ug/L	See Total	NA	NA	NA	NA	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.020	NA	NA	NA	NA
Benzo(b)fluoranthene	T	ug/L	See Total	NA	NA	NA	NA	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.020	NA	NA	NA	NA
Benzo(k)fluoranthene	T	ug/L	See Total	NA	NA	NA	NA	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.020	NA	NA	NA	NA
Chrysene	T	ug/L	See Total	NA	NA	NA	NA	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.020	NA	NA	NA	NA
Dibenzo(a,h)anthracene	T	ug/L	See Total	NA	NA	NA	NA	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.020	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	T	ug/L	See Total	NA	NA	NA	NA	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.020	NA	NA	NA	NA
Total cPAH TEQ	T	ug/L	0.15	NA	NA	NA	NA	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.015	NA	NA	NA	NA
SVOC																		
bis(2-Ethylhexyl)phthalate	T	ug/L	1.7 (RvAL) [3]	1.2	< 1	< 1	< 0.96	< 0.97	< 0.98	< 0.96	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA
Butyl Benzyl Phthalate	T	ug/L	1900	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl Phthalate	T	ug/L	4500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	T	ug/L	10000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	T	ug/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.1	< 0.1	NA	NA
Conventionals																		
Solids, Volatile Suspended	T	mg/L	NV	NA	NA	NA	< 5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids	T	mg/L	NV	4.4	< 1.1	4.2	NA	< 5	11	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	5.5	100	2.2	< 1.1
Dioxin/Furans (only detected congeners shown)																		
OCTACHLORODIBENZO-P-DIOXIN	T	pg/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL HEPTACHLORODIBENZO-P-DIOXINS	T	pg/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL HEPTACHLORODIBENZOFURANS	T	pg/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total TEQ Dioxin/Furans	T	ug/L	5.8E-06 [6]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5E-06

Table 5 T-117 Groundwater Detections First Quarter 2008 to Second Quarter 2012

			Location ID	MW-08R	MW-08R	MW-08R	MW-08R	MW-08R	MW-08R	MW-08R	MW-08R	MW-08R	MW-08R	MW-08R	MW-08R	MW-08R	MW-08R	MW-08R
			Sample ID	MW-08R-0309	MW-08R-0509	MW-08R-0809	MW-08R-0809	DUP-2-1109	MW-8R-1109	MW-08R-0310	MW-08R-0310	MW-08R-0610	MW-08R-0910	MW-18R-0910	MW-08R-1210	MW-08R-0211	MW-08R-0511	MW-08R-0811
			Sample Date	3/31/2009	5/26/2009	8/17/2009	8/17/2009	11/3/2009	11/3/2009	3/30/2010	3/30/2010	6/23/2010	9/22/2010	9/22/2010	12/2/2010	2/22/2011	5/16/2011	8/9/2011
			Sample Quarter	1Q	2Q	3Q	3Q	4Q	4Q	1Q	1Q	2Q	3Q	3Q	4Q	1Q	2Q	3Q
			Sample Matrix	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG
			Sample Type	N	N	FD	N	FD	N	FD	N	N	N	FD	N	N	N	N
Chemical Name	**Total/Disso**	**Unit**	**creening/Action Leve**															
Metals																		
Arsenic	D	mg/L	0.005 (RvAL) [1]	< 0.002	< 0.05	< 0.004	< 0.004	0.0026	0.002	0.00070	0.00069	0.00109	0.00079	0.00079	0.00077 J	0.00072	0.00102	0.00062
Arsenic	T	mg/L	0.005 (RvAL) [1]	< 0.002	< 0.05	0.003	< 0.004	0.0020	0.002	0.00075	0.00065	0.00094	0.00083	0.00081	0.00078 J	0.00070	0.00101	0.00058
Chromium	D	mg/L	1.1	< 0.005	< 0.005	< 0.01	< 0.01	< 0.005	< 0.005	< 0.002 J	< 0.002 J	< 0.002	0.0015 J	0.0013 J	0.0014 J	0.0010 J	< 0.002 UJ	0.0009 J
Chromium	T	mg/L	1.1	< 0.005	< 0.005	< 0.01	< 0.01	< 0.005	< 0.005	< 0.002 J	< 0.002 J	< 0.002	0.0016 J	0.0015 J	0.0021	0.0010 J	< 0.002 UJ	0.0007 J
Copper	D	mg/L	0.0048	< 0.002	< 0.002	0.007	0.005	0.007	0.007	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002 UJ	0.0011 J	< 0.002	< 0.002
Copper	T	mg/L	0.0048	< 0.002	0.003	0.006	0.005	0.008	0.008	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002 UJ	< 0.002	< 0.002	< 0.002
Nickel	D	mg/L	4.6	< 0.01	< 0.01	< 0.02	< 0.02	< 0.01	< 0.01	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.0011 J
Nickel	T	mg/L	4.6	< 0.01 J	< 0.01	< 0.02	< 0.02	< 0.01	< 0.01	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.002	0.0008 J	< 0.002	0.0013 J
Silver	D	mg/L	0.0019 (RvAL)*	< 0.003	< 0.003	< 0.006	< 0.006	0.008 J	< 0.003 J	< 0.002	< 0.002	< 0.002	0.000017 J	0.000017 J	0.00001 J	0.000005 J	< 0.00002	< 0.000062
Silver	T	mg/L	0.0019 (RvAL)*	< 0.003	< 0.003	< 0.006	< 0.006	< 0.003	< 0.003	< 0.002	< 0.002	< 0.002	0.000020	0.000020 J	0.00001 J	0.000009 J	< 0.00002	< 0.000065
Thallium	D	mg/L	0.00047	< 0.01	NA	NA	NA	< 0.05	< 0.05	< 0.01	< 0.01	< 0.01	0.000006 J	0.000006 J	< 0.00003	< 0.00003	< 0.00002	0.000009 J
Thallium	T	mg/L	0.00047	NA	NA	NA	NA	< 0.05	< 0.05	< 0.01	< 0.01	< 0.01	0.000010 J	0.000007 J	< 0.00003	< 0.00003	< 0.00002	0.000013 J
Zinc	D	mg/L	26	NA	NA	NA	NA	< 0.01	< 0.01	0.0039	0.0042	< 0.002	0.0035	0.0034	0.0031 J	0.0023 J	0.0016 J	0.007
Zinc	T	mg/L	26	< 0.01	< 0.01	< 0.02	< 0.02	< 0.01	< 0.01	0.0042	0.0039	< 0.002	0.0035	0.0034	0.0038	0.0017 J	0.0008 J	0.0062
NWTPH																		
Diesel Range Hydrocarbons	T	mg/L	See Total	< 0.25	< 0.25	NA	< 0.25	NA	< 0.25	NA	< 0.25	< 0.11	0.012 J	NA	< 0.110	0.014 J	< 0.110	0.014 J
Residual Range Organics (RRO)	T	mg/L	See Total	NA	NA	NA	NA	NA	NA	NA	NA	< 0.11	< 0.110	NA	< 0.110	< 0.110	< 0.110	< 0.110
Total Diesel + Residual Range	T	mg/L	0.5 (RvAL)	< 0.25	< 0.25	NA	< 0.25	NA	< 0.25	NA	< 0.25	< 0.11	0.012 J	NA	< 0.110	0.014 J	< 0.110	0.014 J
Gasoline Range Organics-NWTPH	T	mg/L	1	NA	< 0.25	NA	< 0.25	NA	< 0.25	NA	< 0.25	< 0.25	< 0.250	NA	< 0.050	< 0.250	< 0.250	< 0.250
PCB																		
Aroclor 1254	T	ug/L	0.03 [2]	< 0.01	< 0.01	NA	< 0.01	NA	< 0.01	NA	< 0.0049	< 0.005	< 0.0051	NA	< 0.0049	< 0.0050	< 0.0050	< 0.0050
Aroclor 1260	T	ug/L	0.03 [2]	< 0.01	0.03 AJ	NA	< 0.01	NA	< 0.01	NA	< 0.0049	0.0064	< 0.0051	NA	< 0.0049	< 0.0050	< 0.0050	< 0.0050
Total PCBs		ug/L	0.01 (RvAL) [2]	< 0.01	0.03 AJ	NA	< 0.01	NA	< 0.01	NA	< 0.0049	0.0064	< 0.0051	NA	< 0.0049	< 0.0050	< 0.0050	< 0.0050
VOCs																		
Carbon Disulfide	T	ug/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	T	ug/L	470	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	T	ug/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichloromethane	T	ug/L	590	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	T	ug/L	2100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m,p-Xylenes	T	ug/L	NV	< 0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	T	ug/L	3.3	< 0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	T	ug/L	15000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	T	ug/L	30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	T	ug/L	NV	< 0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cPAH																		
Benzo(a)pyrene	T	ug/L	See Total	NA	NA	NA	NA	NA	NA	NA	NA	< 0.02	< 0.02	NA	< 0.02	< 0.02	< 0.02	< 0.02
Benzo(a)anthracene	T	ug/L	See Total	NA	NA	NA	NA	NA	NA	NA	NA	< 0.02	< 0.02	NA	< 0.02	< 0.02	< 0.02	< 0.02
Benzo(b)fluoranthene	T	ug/L	See Total	NA	NA	NA	NA	NA	NA	NA	NA	< 0.02	< 0.02	NA	< 0.02	< 0.02	< 0.02	< 0.02
Benzo(k)fluoranthene	T	ug/L	See Total	NA	NA	NA	NA	NA	NA	NA	NA	< 0.02	< 0.02	NA	< 0.02	< 0.02	< 0.02	< 0.02
Chrysene	T	ug/L	See Total	NA	NA	NA	NA	NA	NA	NA	NA	< 0.02	< 0.02	NA	< 0.02	< 0.02	< 0.02	< 0.02
Dibenzo(a,h)anthracene	T	ug/L	See Total	NA	NA	NA	NA	NA	NA	NA	NA	< 0.02	< 0.02	NA	< 0.02	< 0.02	< 0.02	< 0.02
Indeno(1,2,3-cd)pyrene	T	ug/L	See Total	NA	NA	NA	NA	NA	NA	NA	NA	< 0.02	< 0.02	NA	< 0.02	< 0.02	< 0.02	< 0.02
Total cPAH TEQ	T	ug/L	0.15	NA	NA	NA	NA	NA	NA	NA	NA	< 0.030	< 0.030	NA	< 0.030	< 0.030	< 0.030	< 0.030
SVOC																		
bis(2-Ethylhexyl)phthalate	T	ug/L	1.7 (RvAL) [3]	NA	30	NA	< 1	NA	NA	NA	< 0.96	< 1.0	< 1.0	NA	< 0.98	< 1.0	< 1.0	< 0.99
Butyl Benzyl Phthalate	T	ug/L	1900	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl Phthalate	T	ug/L	4500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	T	ug/L	10000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	T	ug/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Conventionals																		
Solids, Volatile Suspended	T	mg/L	NV	NA	NA	NA	NA	NA	NA	NA	< 5	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids	T	mg/L	NV	< 1	NA	NA	NA	NA	< 1.1	NA	NA	9	15	NA	< 5.0	< 5.0	< 5.0	< 5.0
Dioxin/Furans (only detected congeners shown)																		
OCTACHLORODIBENZO-P-DIOXIN	T	pg/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL HEPTACHLORODIBENZO-P-DIOXINS	T	pg/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL HEPTACHLORODIBENZOFURANS	T	pg/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total TEQ Dioxin/Furans	T	ug/L	5.8E-06 [6]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 5 T-117 Groundwater Detections First Quarter 2008 to Second Quarter 2012

Location ID				MW-08R	MW-09	MW-09	MW-09	MW-09	MW-10	MW-10	MW-10	MW-10	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11
Sample ID				MW-08R-0612	MW-9-0308	DUP-1-0308	MW-09-0309	DUP-1-0309	MW-10-0308	MW-10-0608	MW-10-1208	MW-10-0309	MW-11-0908	MW-11-1208	MW-11-0309	MW-11-0509	MW-11-0817	MW-11-1109	MW-11-0310
Sample Date				6/28/2012	3/12/2008	3/11/2008	3/30/2009	3/30/2009	3/11/2008	6/3/2008	12/10/2008	3/31/2009	9/11/2008	12/11/2008	3/31/2009	5/27/2009	8/17/2009	11/2/2009	3/30/2010
Sample Quarter				2Q	1Q	1Q	1Q	1Q	1Q	2Q	4Q	1Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q
Sample Matrix				WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG
Sample Type				N	N	FD	N	FD	N	N	N	N	N	N	N	N	N	N	N
Chemical Name	**Total/Disso**	**Unit**	**creening/Action Leve**																
Metals																			
Arsenic	D	mg/L	0.005 (RvAL) [1]	**0.00068**	**< 0.05**	**< 0.05**	< 0.001	< 0.001	**< 0.05**	< 0.001	**< 0.05**	< 0.001	**< 0.05**	**< 0.05**	< 0.001	NA	NA	NA	NA
Arsenic	T	mg/L	0.005 (RvAL) [1]	**0.00068**	**< 0.05**	**< 0.05**	< 0.001	< 0.001	**< 0.05**	**0.002**	**< 0.05**	< 0.001	**< 0.05**	**< 0.05**	< 0.001	NA	NA	NA	NA
Chromium	D	mg/L	1.1	< 0.002	< 0.005	< 0.005	< 0.005	< 0.005 J	< 0.005	< 0.005	< 0.005	< 0.005 J	< 0.005	< 0.005	< 0.005	NA	NA	NA	NA
Chromium	T	mg/L	1.1	< 0.002	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	NA	NA	NA	NA
Copper	D	mg/L	0.0048	< 0.002	**0.003**	< 0.002	**0.003**	**0.003**	**0.004**	0.009	**0.003**	**0.003**	**0.002**	< 0.002	< 0.002	NA	NA	NA	NA
Copper	T	mg/L	0.0048	**0.0014** J	**0.003**	**0.003**	**0.003**	**0.003**	0.005	0.01	0.005	0.007	**0.004**	< 0.002	< 0.002	NA	NA	NA	NA
Nickel	D	mg/L	4.6	**0.0022**	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01 J	< 0.01	< 0.01	**0.01**	< 0.01	< 0.01	NA	NA	NA	NA
Nickel	T	mg/L	4.6	**0.0022**	< 0.01	< 0.01	< 0.01 J	< 0.01 J	< 0.01	< 0.01	< 0.01	< 0.01	**0.01**	**0.01**	**0.01** J-	NA	NA	NA	NA
Silver	D	mg/L	0.0019 (RvAL)*	**0.000004** J	**< 0.003**	**< 0.003**	**< 0.003**	**< 0.003**	**< 0.003**	**< 0.003** J	**< 0.003**	**< 0.003**	**< 0.003**	**< 0.003** J	**< 0.003**	NA	NA	NA	NA
Silver	T	mg/L	0.0019 (RvAL)*	**0.000005** J	**< 0.003**	**< 0.003**	**< 0.003**	**< 0.003**	**< 0.003**	**< 0.003** J	**< 0.003**	**< 0.003**	**< 0.003**	**< 0.003** J	**< 0.003**	NA	NA	NA	NA
Thallium	D	mg/L	0.00047	< 0.00002	NA	NA	**< 0.01**	**< 0.01**	NA	NA	**< 0.01**	**< 0.01**	NA	NA	NA	NA	NA	NA	NA
Thallium	T	mg/L	0.00047	< 0.00002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	D	mg/L	26	**0.0018** J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	T	mg/L	26	**0.0018** J	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	NA	NA	NA	NA
NWTPH																			
Diesel Range Hydrocarbons	T	mg/L	See Total	**0.017** J	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	0.53	< 0.25	< 0.25	< 0.25	**0.27**	< 0.25	< 0.25	**0.27**	**0.28**	< 0.25
Residual Range Organics (RRO)	T	mg/L	See Total	< 0.110	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**< 0.5**
Total Diesel + Residual Range	T	mg/L	0.5 (RvAL)	**0.017**	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	0.53	< 0.25	< 0.25	< 0.25	**0.27**	< 0.25	< 0.25	**0.27**	**0.28**	**< 0.5**
Gasoline Range Organics-NWTPH	T	mg/L	1	< 0.250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.25	< 0.25	< 0.25	< 0.25
PCB																			
Aroclor 1254	T	ug/L	0.03 [2]	< 0.0049	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0049
Aroclor 1260	T	ug/L	0.03 [2]	< 0.0049	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01 J	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0049
Total PCBs		ug/L	0.01 (RvAL) [2]	< 0.0049	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01 J	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0049
VOCs																			
Carbon Disulfide	T	ug/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	T	ug/L	470	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	T	ug/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichloromethane	T	ug/L	590	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	T	ug/L	2100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m,p-Xylenes	T	ug/L	NV	NA	< 1	< 1	< 1	< 0.4	< 0.4	< 1	< 1	< 0.4	< 0.4	< 1	< 1	NA	NA	NA	NA
Tetrachloroethene	T	ug/L	3.3	NA	**1**	**0.9**	**1.3**	**1.3**	**2**	**1.4**	**1.3**	**1**	< 0.2	< 0.2	**1.4**	NA	NA	NA	NA
Toluene	T	ug/L	15000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	T	ug/L	30	NA	< 0.2	< 0.2	< 0.2	< 0.2	**0.5**	**0.2**	< 0.2	< 0.2	< 0.2	**0.2**	**0.6**	NA	NA	NA	NA
1,2,4-Trimethylbenzene	T	ug/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cPAH																			
Benzo(a)pyrene	T	ug/L	See Total	< 0.020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	T	ug/L	See Total	< 0.020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	T	ug/L	See Total	**0.0083** J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	T	ug/L	See Total	**0.0091** J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	T	ug/L	See Total	**0.0082** J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	T	ug/L	See Total	**0.0094** J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	T	ug/L	See Total	**0.0086** J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total cPAH TEQ	T	ug/L	0.15	**0.015**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOC																			
bis(2-Ethylhexyl)phthalate	T	ug/L	1.7 (RvAL) [3]	< 0.96	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**5**	< 1	NA	< 0.95
Butyl Benzyl Phthalate	T	ug/L	1900	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl Phthalate	T	ug/L	4500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	T	ug/L	10000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	T	ug/L	NV	NA	< 0.1	< 0.1	NA	NA	< 0.1	< 0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Conventionals																			
Solids, Volatile Suspended	T	mg/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 5
Total Suspended Solids	T	mg/L	NV	< 5.0	< 1.1	< 2.1	< 1	< 1	< 1	**3.2**	< 1.1	**2.8**	**2.1**	< 1	< 1	< 1	< 1.1	< 1	NA
Dioxin/Furans (only detected congeners shown)																			
OCTACHLORODIBENZO-P-DIOXIN	T	pg/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL HEPTACHLORODIBENZO-P-DIOXINS	T	pg/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL HEPTACHLORODIBENZOFURANS	T	pg/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total TEQ Dioxin/Furans	T	ug/L	5.8E-06 [6]	NA	NA	NA	NA	NA	NA	NA	2.5E-06	NA	NA	NA	NA	NA	NA	NA	NA

Table 5 T-117 Groundwater Detections First Quarter 2008 to Second Quarter 2012

Location ID				MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12
Sample ID				MW-11-0610	MW-11-0910	MW-11-1210	MW-11-0211	MW-11-0511	MW-11-0811	MW-11-0612	GW-12-052609	MW-12-0809	DUP-1-1109	MW-12-1109	MW-120-0310	MW-12-0310	MW-12-0610	MW-12-0910	MW-22-0910	MW-12-1210
Sample Date				6/22/2010	9/22/2010	12/2/2010	2/22/2011	5/16/2011	8/9/2011	6/28/2012	5/26/2009	8/17/2009	11/3/2009	11/3/2009	3/30/2010	3/30/2010	6/22/2010	9/22/2010	9/22/2010	12/2/2010
Sample Quarter				2Q	3Q	4Q	1Q	2Q	3Q	2Q	2Q	3Q	4Q	4Q	1Q	1Q	2Q	3Q	3Q	4Q
Sample Matrix				WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG
Sample Type				N	N	N	N	N	N	N	N	N	FD	N	FD	N	N	N	FD	N
Chemical Name	**Total/Disso**	**Unit**	**creening/Action Leve**																	
Metals																				
Arsenic	D	mg/L	0.005 (RvAL) [1]	NA	NA	NA	NA	NA	NA	NA	**0.0177**	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	T	mg/L	0.005 (RvAL) [1]	NA	NA	NA	NA	NA	NA	NA	**0.0178**	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	D	mg/L	1.1	NA	NA	NA	NA	NA	NA	NA	< 0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	T	mg/L	1.1	NA	NA	NA	NA	NA	NA	NA	< 0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	D	mg/L	0.0048	NA	NA	NA	NA	NA	NA	NA	< 0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	T	mg/L	0.0048	NA	NA	NA	NA	NA	NA	NA	< 0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	D	mg/L	4.6	NA	NA	NA	NA	NA	NA	NA	< 0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	T	mg/L	4.6	NA	NA	NA	NA	NA	NA	NA	< 0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	D	mg/L	0.0019 (RvAL)*	NA	NA	NA	NA	NA	NA	NA	**< 0.003**	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	T	mg/L	0.0019 (RvAL)*	NA	NA	NA	NA	NA	NA	NA	**< 0.003**	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	D	mg/L	0.00047	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	T	mg/L	0.00047	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	D	mg/L	26	NA	NA	NA	NA	NA	NA	NA	< 0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	T	mg/L	26	NA	NA	NA	NA	NA	NA	NA	< 0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA
NWTPH																				
Diesel Range Hydrocarbons	T	mg/L	See Total	**0.16** J	**0.270** J	**0.240** YJ	**0.170** YJ	**0.170** HJ	**0.130** YJ	**0.100** J	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.11	**0.017** J	NA	< 0.110
Residual Range Organics (RRO)	T	mg/L	See Total	< 0.11	**0.180** J	**0.170** OJ	< 0.130	< 0.200	< 0.110	**0.120** J	NA	NA	NA	NA	**< 0.5**	**< 0.5**	< 0.11	< 0.11	NA	< 0.110
Total Diesel + Residual Range	T	mg/L	0.5 (RvAL)	**0.16** J	**0.450** J	**0.410** YJ	**0.300** YJ	**0.370**	**0.130** YJ	**0.220**	< 0.25	< 0.25	< 0.25	< 0.25	**< 0.5**	**< 0.5**	< 0.11	**0.017** J	NA	< 0.110
Gasoline Range Organics-NWTPH	T	mg/L	1	< 0.25	< 0.250	< 0.050	< 0.250	< 0.250	< 0.250	< 0.250	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	NA	< 0.050
PCB																				
Aroclor 1254	T	ug/L	0.03 [2]	< 0.005	< 0.0050	< 0.0049	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0049	< 0.0049	< 0.0051	< 0.0053	NA	< 0.0049
Aroclor 1260	T	ug/L	0.03 [2]	< 0.005	< 0.0050	< 0.0049	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0049	< 0.0049	< 0.0051	< 0.0053	NA	< 0.0049
Total PCBs		ug/L	0.01 (RvAL) [2]	< 0.005	< 0.0050	< 0.0049	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0049	< 0.0049	< 0.0051	< 0.0053	NA	< 0.0049
VOCs																				
Carbon Disulfide	T	ug/L	NV	NA	NA	NA	NA	< 0.50	< 0.50	**0.12** J	NA	NA	NA	NA	NA	NA	< 0.5	< 0.5	**0.13** J	< 0.50
Chloroform	T	ug/L	470	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	NA	NA	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.50
Chloromethane	T	ug/L	NV	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.2	< 1	< 1 J	< 1 J	< 0.5	< 0.5	< 0.5	**0.11** J	< 0.5	< 0.50
Dichloromethane	T	ug/L	590	NA	NA	NA	NA	< 0.50	< 2	< 2	NA	NA	< 2	< 2	NA	NA	< 2	< 2	< 2	< 2.0
Ethylbenzene	T	ug/L	2100	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	NA	NA	NA	NA	NA	NA	< 0.5	**0.05** J	**0.05** J	< 0.50
m,p-Xylenes	T	ug/L	NV	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	NA	NA	NA	NA	NA	NA	< 0.5	< 0.5	**0.21** J	< 0.50
Tetrachloroethene	T	ug/L	3.3	NA	NA	NA	NA	**1.5**	**1.5**	**1.4**	< 0.2	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.50
Toluene	T	ug/L	15000	NA	NA	NA	NA	**0.13** J	**0.07** J	**0.19**	< 0.2	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	**0.25** J	**0.27** J	< 0.50
Trichloroethene	T	ug/L	30	NA	NA	NA	NA	**0.47** J	**0.57** J	**0.53**	NA	NA	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.50
1,2,4-Trimethylbenzene	T	ug/L	NV	NA	NA	NA	NA	< 1.0	< 1.0	< 2	NA	NA	NA	NA	NA	NA	< 1.0	**0.08** J	**< 0.08** J	< 1.0
cPAH																				
Benzo(a)pyrene	T	ug/L	See Total	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	NA	NA	NA	NA	NA	NA	< 0.021	< 0.02	NA	< 0.02
Benzo(a)anthracene	T	ug/L	See Total	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	NA	NA	NA	NA	NA	NA	< 0.021	< 0.02	NA	< 0.02
Benzo(b)fluoranthene	T	ug/L	See Total	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	NA	NA	NA	NA	NA	NA	< 0.021	< 0.02	NA	< 0.02
Benzo(k)fluoranthene	T	ug/L	See Total	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	NA	NA	NA	NA	NA	NA	< 0.021	< 0.02	NA	< 0.02
Chrysene	T	ug/L	See Total	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	NA	NA	NA	NA	NA	NA	< 0.021	< 0.02	NA	< 0.02
Dibenzo(a,h)anthracene	T	ug/L	See Total	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	NA	NA	NA	NA	NA	NA	< 0.021	< 0.02	NA	< 0.02
Indeno(1,2,3-cd)pyrene	T	ug/L	See Total	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	NA	NA	NA	NA	NA	NA	< 0.021	< 0.02	NA	< 0.02
Total cPAH TEQ	T	ug/L	0.15	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.015	NA	NA	NA	NA	NA	NA	< 0.032	< 0.030	NA	< 0.030
SVOC																				
bis(2-Ethylhexyl)phthalate	T	ug/L	1.7 (RvAL) [3]	< 0.99	< 1.1	< 0.96	< 1.0	< 0.99	< 0.99	< 0.99	< 1.0	< 1.0	< 1	< 1	< 0.95	< 0.96	< 1.1	< 1.0	NA	< 0.97
Butyl Benzyl Phthalate	T	ug/L	1900	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl Phthalate	T	ug/L	4500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	T	ug/L	10000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	T	ug/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Conventionals																				
Solids, Volatile Suspended	T	mg/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 5	< 5	NA	NA	NA	NA
Total Suspended Solids	T	mg/L	NV	**6**	**11.5**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	< 1.1	< 1	NA	NA	< 5	**9.5**	NA	< 5.0
Dioxin/Furans (only detected congeners shown)																				
OCTACHLORODIBENZO-P-DIOXIN	T	pg/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL HEPTACHLORODIBENZO-P-DIOXINS	T	pg/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL HEPTACHLORODIBENZOFURANS	T	pg/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total TEQ Dioxin/Furans	T	ug/L	5.8E-06 [6]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 5 T-117 Groundwater Detections First Quarter 2008 to Second Quarter 2012

Location ID				MW-12	MW-12	MW-12	MW-12	MW-13	MW-13	MW-13	MW-13	MW-13	MW-13	MW-13	MW-13	MW-13	MW-13	MW-13
Sample ID				MW-12-0211	MW-12-0511	MW-12-0811	MW-12-0612	GW-13-052609	Dup-2-0909	MW-13-0909	MW-13-1109	MW-13-0310	MW-13-0610	MW-23-0610	MW-13-0910	MW-13-1210	MW-13-0211	MW-13-0511
Sample Date				2/24/2011	5/16/2011	8/10/2011	6/28/2012	5/26/2009	9/9/2009	9/9/2009	11/3/2009	3/30/2010	6/23/2010	6/23/2010	9/23/2010	12/2/2010	2/24/2011	5/16/2011
Sample Quarter				1Q	2Q	3Q	2Q	2Q	3Q	3Q	4Q	1Q	2Q	2Q	3Q	4Q	1Q	2Q
Sample Matrix				WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG
Sample Type				N	N	N	N	N	FD	N	N	N	N	FD	N	N	N	N
Chemical Name	**Total/Disso**	**Unit**	**creening/Action Leve**															
Metals																		
Arsenic	D	mg/L	0.005 (RvAL) [1]	NA	NA	NA	NA	**0.0094**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	T	mg/L	0.005 (RvAL) [1]	NA	NA	NA	NA	**0.0107**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	D	mg/L	1.1	NA	NA	NA	NA	< 0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	T	mg/L	1.1	NA	NA	NA	NA	< 0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	D	mg/L	0.0048	NA	NA	NA	NA	< 0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	T	mg/L	0.0048	NA	NA	NA	NA	< 0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	D	mg/L	4.6	NA	NA	NA	NA	< 0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	T	mg/L	4.6	NA	NA	NA	NA	< 0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	D	mg/L	0.0019 (RvAL)*	NA	NA	NA	NA	**< 0.003**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	T	mg/L	0.0019 (RvAL)*	NA	NA	NA	NA	**< 0.003**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	D	mg/L	0.00047	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	T	mg/L	0.00047	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	D	mg/L	26	NA	NA	NA	NA	< 0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	T	mg/L	26	NA	NA	NA	NA	< 0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NWTPH																		
Diesel Range Hydrocarbons	T	mg/L	See Total	< 0.120	< 0.110	< 0.110	< 0.110	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.11	< 0.11	**0.023** J	< 0.110	**0.030** J	< 0.110
Residual Range Organics (RRO)	T	mg/L	See Total	< 0.120	< 0.110	< 0.110	< 0.110	NA	NA	NA	NA	**< 0.5**	**0.13** J	< 0.11	< 0.110	< 0.110	< 0.110	< 0.110
Total Diesel + Residual Range	T	mg/L	0.5 (RvAL)	< 0.120	< 0.110	< 0.110	< 0.110	< 0.25	< 0.25	< 0.25	< 0.25	**< 0.5**	**0.13** J	< 0.11	**0.023** J	< 0.110	**0.030** J	< 0.110
Gasoline Range Organics-NWTPH	T	mg/L	1	< 0.250	< 0.250	< 0.250	< 0.250	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.250	< 0.050	< 0.250	< 0.250
PCB																		
Aroclor 1254	T	ug/L	0.03 [2]	< 0.0050	< 0.0050	< 0.0050	< 0.0049	< 0.01	< 0.01	**0.016 AJ**	< 0.01	< 0.0049	< 0.005	< 0.005	< 0.0050	< 0.0049	< 0.0050	< 0.0050
Aroclor 1260	T	ug/L	0.03 [2]	< 0.0050	< 0.0050	< 0.0050	< 0.0049	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0049	< 0.005	< 0.005	< 0.0050	< 0.0049	< 0.0050	< 0.0050
Total PCBs		ug/L	0.01 (RvAL) [2]	< 0.0050	< 0.0050	< 0.0050	< 0.0049	< 0.01	< 0.01	**0.016 AJ**	< 0.01	< 0.0049	< 0.005	< 0.005	< 0.0050	< 0.0049	< 0.0050	< 0.0050
VOCs																		
Carbon Disulfide	T	ug/L	NV	< 0.50	**0.06** J	**0.10** J	**0.10** J	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	< 0.50	< 0.50	< 0.50
Chloroform	T	ug/L	470	< 0.50	< 0.50	< 0.50	< 0.50	NA	NA	NA	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.50	< 0.50	< 0.50
Chloromethane	T	ug/L	NV	< 0.50	< 0.50	< 0.50	< 0.50	< 0.2	< 1	< 1	< 1 J	< 0.5	< 0.5	< 0.5	< 0.5	< 0.50	< 0.50	< 0.50
Dichloromethane	T	ug/L	590	< 2.0	< 0.50	< 2.0	< 0.50	NA	NA	NA	**5**	< 2	< 2	< 2	< 2	< 2.0	< 2.0	< 0.50
Ethylbenzene	T	ug/L	2100	< 0.50	< 0.50	< 0.50	< 0.50	NA	NA	NA	NA	NA	< 0.5	< 0.5	< 0.5	< 0.50	< 0.50	< 0.50
m,p-Xylenes	T	ug/L	NV	< 0.50	< 0.50	< 0.50	< 0.50	NA	NA	NA	NA	NA	< 0.5	< 0.5	**0.11** J	< 0.50	< 0.50	< 0.50
Tetrachloroethene	T	ug/L	3.3	< 0.50	< 0.50	< 0.50	< 0.50	< 0.2	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.50	< 0.50	< 0.50
Toluene	T	ug/L	15000	< 0.50	< 0.50	**0.06** J	**0.12**	NA	NA	NA	< 1	< 0.5	< 0.5	< 0.5	**0.17** J	< 0.50	**0.06** J	**0.15** J
Trichloroethene	T	ug/L	30	< 0.50	< 0.50	< 0.50	< 0.50	< 0.2	< 1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.50	< 0.50	< 0.50
1,2,4-Trimethylbenzene	T	ug/L	NV	< 1.0	< 1.0	< 1.0	< 2	NA	NA	NA	NA	NA	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0
cPAH																		
Benzo(a)pyrene	T	ug/L	See Total	< 0.02	< 0.02	< 0.02	< 0.022	NA	< 0.02	< 0.02	**0.014** J	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	**0.009** J	< 0.02
Benzo(a)anthracene	T	ug/L	See Total	< 0.02	< 0.02	< 0.02	< 0.022	NA	< 0.02	< 0.02	**0.022**	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	**0.0077** J	< 0.02
Benzo(b)fluoranthene	T	ug/L	See Total	< 0.02	< 0.02	< 0.02	< 0.022	NA	< 0.02	< 0.02	**0.016** J	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	**0.013** J	< 0.02
Benzo(k)fluoranthene	T	ug/L	See Total	< 0.02	< 0.02	< 0.02	< 0.022	NA	< 0.02	< 0.02	**0.0077** J	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	**0.010** J	< 0.02
Chrysene	T	ug/L	See Total	< 0.02	< 0.02	< 0.02	< 0.022	NA	< 0.02	< 0.02	**0.022**	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	**0.0086** J	< 0.02
Dibenzo(a,h)anthracene	T	ug/L	See Total	< 0.02	< 0.02	< 0.02	< 0.022	NA	< 0.02	< 0.02	< 0.020	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	**0.013** J	< 0.02
Indeno(1,2,3-cd)pyrene	T	ug/L	See Total	< 0.02	< 0.02	< 0.02	< 0.022	NA	< 0.02	< 0.02	**0.0067** J	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	**0.012** J	< 0.02
Total cPAH TEQ	T	ug/L	0.15	< 0.030	< 0.02	< 0.02	< 0.017	NA	< 0.02	< 0.02	**0.021**	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	**0.015**	< 0.030
SVOC																		
bis(2-Ethylhexyl)phthalate	T	ug/L	1.7 (RvAL) [3]	< 0.98	< 1.0	< 0.99	< 0.99	< 1	< 1	< 1	NA	< 0.98	**1.3**	< 0.98	< 1.0	< 0.97	< 1.0	**0.28** J
Butyl Benzyl Phthalate	T	ug/L	1900	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl Phthalate	T	ug/L	4500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	T	ug/L	10000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	T	ug/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Conventionals																		
Solids, Volatile Suspended	T	mg/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	< 5	NA	NA	NA	NA	NA	NA
Total Suspended Solids	T	mg/L	NV	< 5.0	< 5.0	< 5.0	< 5.0	1.2	< 1	< 2.4	< 1	NA	< 5	< 5	**11**	< 5.0	< 5.0	< 5.0
Dioxin/Furans (only detected congeners shown)																		
OCTACHLORODIBENZO-P-DIOXIN	T	pg/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL HEPTACHLORODIBENZO-P-DIOXINS	T	pg/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL HEPTACHLORODIBENZOFURANS	T	pg/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total TEQ Dioxin/Furans	T	ug/L	5.8E-06 [6]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 5 T-117 Groundwater Detections First Quarter 2008 to Second Quarter 2012

Location ID				MW-13	MW-13	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-15	MW-15	MW-15	MW-15	MW-15
Sample ID				MW-13-0811	MW-13-0612	MW-14-0910	MW-24-0910	MW-14-1210	MW-14-0211	MW-24-0211	MW-24-0511	MW-14-0811	MW-24-0811	MW-14-0612	MW-15-0910	MW-15-1210	MW-25-1210	MW-15-0211	MW-15-0511
Sample Date				8/10/2011	6/28/2012	9/23/2010	9/23/2010	12/1/2010	2/22/2011	2/22/2011	5/13/2011	8/10/2011	8/10/2011	6/28/2012	9/23/2010	12/1/2010	12/1/2010	2/23/2011	5/17/2011
Sample Quarter				3Q	2Q	3Q	3Q	4Q	1Q	1Q	2Q	3Q	3Q	2Q	3Q	4Q	4Q	1Q	2Q
Sample Matrix				WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG
Sample Type				N	N	N	FD	N	N	FD	N	N	FD	N	N	N	FD	N	N
Chemical Name	**Total/Disso**	**Unit**	**creening/Action Leve**																
Metals																			
Arsenic	D	mg/L	0.005 (RvAL) [1]	NA	NA	**0.00021** J	NA	**0.00058**	**0.00050**	**0.00050** J	**0.00060**	**0.00058**	**0.00057**	**0.00050** J	**0.00022** J	**0.00060**	**0.00053**	**0.00040** J	**0.00052**
Arsenic	T	mg/L	0.005 (RvAL) [1]	NA	NA	**0.00021** J	NA	**0.00051**	**0.00050** J	**0.00050** J	**0.00063**	**0.00055** J	**0.00060**	**0.0004** J	**0.00018** J	**0.00060**	**0.00059**	**0.00040** J	**0.00057**
Chromium	D	mg/L	1.1	NA	NA	< 0.002	NA	< 0.002	< 0.002	< 0.002	< 0.002 UJ	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002 UJ
Chromium	T	mg/L	1.1	NA	NA	< 0.002	NA	< 0.002	**0.0008** J	< 0.002	< 0.002 UJ	< 0.002	< 0.002	< 0.0025	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002 UJ
Copper	D	mg/L	0.0048	NA	NA	**0.0039**	NA	**0.0021** J	**0.0030**	**0.0029**	< 0.0043	**0.0033**	**0.0034**	**0.0037**	**0.0081**	**0.0053**	**0.0057**	**0.0060**	**0.0069**
Copper	T	mg/L	0.0048	NA	NA	**0.0032**	NA	**0.0026** J	**0.0032**	**0.0036**	< 0.0040	**0.0034**	**0.0031**	**0.0034** J	**0.0072**	**0.0055**	**0.0062**	**0.0059**	**0.0072**
Nickel	D	mg/L	4.6	NA	NA	< 0.002	NA	< 0.002	**0.0018** J	**0.0018** J	**0.0027**	**0.001** J	**0.0008** J	**0.0084**	**0.0007** J	**0.0014** J	**0.0015** J	**0.0022**	**0.0027**
Nickel	T	mg/L	4.6	NA	NA	< 0.002	NA	< 0.002	**0.0022**	**0.0021**	**0.0028**	**0.0012** J	**0.001** J	**0.0087**	**0.0007** J	**0.0014** J	**0.0015** J	**0.0019** J	**0.0028**
Silver	D	mg/L	0.0019 (RvAL)*	NA	NA	**0.000008** J	NA	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Silver	T	mg/L	0.0019 (RvAL)*	NA	NA	**0.000008** J	NA	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Thallium	D	mg/L	0.00047	NA	NA	**0.000014** J	NA	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	**0.000045**	**0.000054**	**0.000054**	< 0.00002	**0.00004**
Thallium	T	mg/L	0.00047	NA	NA	**0.000014** J	NA	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	**0.000045**	**0.000056**	**0.000055**	**0.000046**	**0.00004**
Zinc	D	mg/L	26	NA	NA	**0.0035**	NA	**0.0031**	**0.0037** J	**0.0030** J	**0.003**	**0.0034**	**0.0036**	**0.004**	**0.0046**	**0.0052**	**0.0066**	**0.0028** J	**0.0053**
Zinc	T	mg/L	26	NA	NA	**0.0038**	NA	**0.0029**	**0.0044**	**0.0029** J	**0.0032**	**0.0037**	**0.0037**	**0.0042**	**0.0045**	**0.0054**	**0.0051**	**0.0029** J	**0.0056**
NWTPH																			
Diesel Range Hydrocarbons	T	mg/L	See Total	**0.015** J	**0.026** J	< 0.110	NA	< 0.110	< 0.110	< 0.110	< 0.110	< 0.110	**0.012** J	**0.015** J	**0.040** J	< 0.110	< 0.110	**0.019** J	< 0.110
Residual Range Organics (RRO)	T	mg/L	See Total	< 0.110	< 0.110	< 0.110	NA	< 0.110	< 0.110	< 0.110	< 0.110	< 0.110	< 0.110	< 0.110	< 0.110	< 0.110	< 0.110	< 0.110	< 0.110
Total Diesel + Residual Range	T	mg/L	0.5 (RvAL)	**0.015** J	**0.026**	< 0.110	NA	< 0.110	< 0.110	< 0.110	< 0.110	< 0.110	**0.012** J	**0.015**	**0.040** J	< 0.110	< 0.110	**0.019** J	< 0.110
Gasoline Range Organics-NWTPH	T	mg/L	1	< 0.250	< 0.250	< 0.250	NA	< 0.050	< 0.250	< 0.250	< 0.250	< 0.250	< 0.250	< 0.250	< 0.250	< 0.050	< 0.050	< 0.250	< 0.250
PCB																			
Aroclor 1254	T	ug/L	0.03 [2]	< 0.0050	< 0.0500	< 0.0049	NA	< 0.0049	< 0.0049	< 0.0050	< 0.0050	< 0.0049	< 0.0050	< 0.0500	< 0.0050	< 0.0050	< 0.0049	< 0.0050	< 0.0050
Aroclor 1260	T	ug/L	0.03 [2]	< 0.0050	< 0.0500	**0.0019** J	NA	< 0.0049	< 0.0049	< 0.0050	**0.0032**	**0.0021** J	< 0.0050	< 0.0500	< 0.0050	< 0.0050	< 0.0049	< 0.0050	< 0.0050
Total PCBs		ug/L	0.01 (RvAL) [2]	< 0.0050	< 0.0500	**0.0019** J	NA	< 0.0049	< 0.0049	< 0.0050	**0.0032**	**0.0021** J	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0049	< 0.0050	< 0.0050
VOCs																			
Carbon Disulfide	T	ug/L	NV	< 0.50	< 0.50	< 0.50	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chloroform	T	ug/L	470	< 0.50	< 0.50	**0.14** J	NA	**0.20** J	**0.11** J	**0.10** J	< 0.50	< 0.50	**0.08** J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chloromethane	T	ug/L	NV	< 0.50	< 0.50	< 0.50	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.08** J	< 0.50	< 0.50	< 0.50	< 0.50
Dichloromethane	T	ug/L	590	< 2.0	< 2.0	< 2.00	NA	< 0.50	< 2.0	< 2.0	< 0.50	< 2.0	< 2.0	< 0.50	< 2.0	< 2.0	< 2.0	< 2.0	< 0.50
Ethylbenzene	T	ug/L	2100	< 0.50	< 0.50	< 0.50	NA	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
m,p-Xylenes	T	ug/L	NV	< 0.50	< 0.50	< 0.50	NA	< 0.50	< 0.50	< 0.50	**0.14** J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Tetrachloroethene	T	ug/L	3.3	< 0.50	< 0.50	< 0.50	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2**	**1.7**	**1.7**	**1.5**	**1.8**
Toluene	T	ug/L	15000	< 0.50	**0.1** J	**0.12** J	NA	< 0.50	**0.09** J	< 0.50	**0.14** J	**0.10** J	**0.06** J	**0.10**	**0.15** J	< 0.50	< 0.50	**0.06** J	**0.07** J
Trichloroethene	T	ug/L	30	< 0.50	< 0.50	< 0.50	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.13** J	**0.13** J	**0.13** J	**0.10** J	**0.11** J
1,2,4-Trimethylbenzene	T	ug/L	NV	< 1.0	< 2.0	< 1.00	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cPAH																			
Benzo(a)pyrene	T	ug/L	See Total	< 0.02	< 0.021	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.020	< 0.02	< 0.02	< 0.02	< 0.02	< 0.020
Benzo(a)anthracene	T	ug/L	See Total	< 0.02	< 0.021	< 0.02	< 0.02	**0.0043** J	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.020	< 0.02	< 0.02	< 0.02	< 0.02	< 0.020
Benzo(b)fluoranthene	T	ug/L	See Total	< 0.02	< 0.021	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.020	< 0.02	< 0.02	< 0.02	< 0.02	< 0.020
Benzo(k)fluoranthene	T	ug/L	See Total	< 0.02	< 0.021	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.020	< 0.02	< 0.02	< 0.02	< 0.02	< 0.020
Chrysene	T	ug/L	See Total	< 0.02	< 0.021	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.020	< 0.02	< 0.02	< 0.02	< 0.02	< 0.020
Dibenzo(a,h)anthracene	T	ug/L	See Total	< 0.02	< 0.021	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.020	< 0.02	< 0.02	< 0.02	< 0.02	< 0.020
Indeno(1,2,3-cd)pyrene	T	ug/L	See Total	< 0.02	< 0.021	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.020	< 0.02	< 0.02	< 0.02	< 0.02	< 0.020
Total cPAH TEQ	T	ug/L	0.15	< 0.030	< 0.016	< 0.030	< 0.030	**0.029**	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.015	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030
SVOC																			
bis(2-Ethylhexyl)phthalate	T	ug/L	1.7 (RvAL) [3]	**0.15** J	< 0.99	< 1.0	< 1.0	< 0.96	< 0.97	< 0.99	< 0.99	< 0.99	< 0.99	< 0.96	< 1.0	< 0.98	< 0.96	< 1.0	< 0.98
Butyl Benzyl Phthalate	T	ug/L	1900	NA	NA	**0.044** J	**0.045** J	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Di-n-butyl Phthalate	T	ug/L	4500	NA	NA	**0.039** J	**0.035** J	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	**0.033** J	< 0.2	< 0.2	< 0.2	< 0.2
Phenol	T	ug/L	10000	NA	NA	< 0.50	< 0.50	< 0.48	< 0.49	< 0.50	< 0.50	< 0.50	< 0.50	< 0.48	< 0.50	< 0.49	< 0.48	< 0.50	< 0.50
Naphthalene	T	ug/L	NV	NA	NA	**0.068** J	**0.052** J	**0.037**	**0.034**	**0.016**	**0.024**	**0.042**	**0.037**	**0.15**	**0.035** J	**0.012** J	**0.043** J	**0.045**	**0.035**
Conventionals																			
Solids, Volatile Suspended	T	mg/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids	T	mg/L	NV	< 5.0	< 5.0	**13**	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**10.5**	< 5.0	< 5.0	< 5.0	< 5.0
Dioxin/Furans (only detected congeners shown)																			
OCTACHLORODIBENZO-P-DIOXIN	T	pg/L	NV	NA	NA	**52.2** BJ	< 33.3 UJ	NA	NA	NA	NA	NA	NA	NA	**57.1** BJ	NA	NA	NA	NA
TOTAL HEPTACHLORODIBENZO-P-DIOXINS	T	pg/L	NV	NA	NA	< 25.0	**3.39** J	NA	NA	NA	NA	NA	NA	NA	< 24.5	NA	NA	NA	NA
TOTAL HEPTACHLORODIBENZOFURANS	T	pg/L	NV	NA	NA	< 25.0	< 25.3	NA	NA	NA	NA	NA	NA	NA	**2.22** J	NA	NA	NA	NA
Total TEQ Dioxin/Furans	T	ug/L	5.8E-06 [6]	NA	NA	6.80E-07	5.20E-07	NA	NA	NA	NA	NA	NA	NA	**5.50E-07**	NA	NA	NA	NA

Table 5 T-117 Groundwater Detections First Quarter 2008 to Second Quarter 2012

			Location ID	MW-15	MW-15	MW-15	MW-15 Dup
			Sample ID	MW-25-0511	MW-15-0211	MW-15-0612	MW-25-0612
			Sample Date	5/17/2011	8/10/2011	6/28/2012	6/28/2012
			Sample Quarter	2Q	3Q	2Q	2Q
			Sample Matrix	WG	WG	WG	WG
			Sample Type	FD	N	N	FD
Chemical Name	**Total/Disso**	**Unit**	**creening/Action Leve**				
Metals							
Arsenic	D	mg/L	0.005 (RvAL) [1]	**0.00051**	< 0.00050	**0.0003** J	**0.0003** J
Arsenic	T	mg/L	0.005 (RvAL) [1]	**0.00052**	**0.00047** J	**0.0003** J	**0.0003** J
Chromium	D	mg/L	1.1	< 0.002 UJ	< 0.002	< 0.0007	< 0.002
Chromium	T	mg/L	1.1	< 0.002 UJ	< 0.002	**0.0007** J	< 0.002
Copper	D	mg/L	0.0048	**0.0070**	**0.0058**	**0.0055**	**0.0052**
Copper	T	mg/L	0.0048	**0.0067**	**0.0058**	**0.0061**	**0.0058**
Nickel	D	mg/L	4.6	**0.0036**	**0.0011**	**0.0073**	**0.0067**
Nickel	T	mg/L	4.6	**0.0031**	**0.0011** J	**0.0067**	**0.0067**
Silver	D	mg/L	0.0019 (RvAL)*	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Silver	T	mg/L	0.0019 (RvAL)*	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Thallium	D	mg/L	0.00047	**0.000036**	< 0.000034	**0.000049**	**0.000043**
Thallium	T	mg/L	0.00047	**0.000038**	< 0.000039	**0.000048**	**0.000045**
Zinc	D	mg/L	26	**0.0053**	**0.0031**	**0.0042**	**0.004**
Zinc	T	mg/L	26	**0.0042**	**0.0031**	**0.0046**	**0.0046**
NWTPH							
Diesel Range Hydrocarbons	T	mg/L	See Total	< 0.110	**0.017** J	**0.018** J	**0.022** J
Residual Range Organics (RRO)	T	mg/L	See Total	< 0.110	< 0.120	< 0.110	< 0.110
Total Diesel + Residual Range	T	mg/L	0.5 (RvAL)	< 0.110	**0.017** J	**0.018**	**0.022**
Gasoline Range Organics-NWTPH	T	mg/L	1	< 0.250	< 0.250	< 0.250	< 0.250
PCB							
Aroclor 1254	T	ug/L	0.03 [2]	< 0.0050	< 0.0050	< 0.0500	< 0.0500
Aroclor 1260	T	ug/L	0.03 [2]	< 0.0050	< 0.0050	< 0.0500	< 0.0500
Total PCBs		ug/L	0.01 (RvAL) [2]	< 0.0050	< 0.0050	< 0.500	< 0.0500
VOCs							
Carbon Disulfide	T	ug/L	NV	< 0.50	< 0.50	< 0.50	< 0.50
Chloroform	T	ug/L	470	< 0.50	< 0.50	**0.15** J	**0.16** J
Chloromethane	T	ug/L	NV	< 0.50	< 0.50	< 0.50	< 0.50
Dichloromethane	T	ug/L	590	< 0.50	< 2.0	< 2.0	< 2.0
Ethylbenzene	T	ug/L	2100	< 0.50	< 0.50	< 0.50	< 0.50
m,p-Xylenes	T	ug/L	NV	< 0.50	< 0.50	< 0.50	< 0.50
Tetrachloroethene	T	ug/L	3.3	**1.8**	**1.6**	< **1.4**	**1.4**
Toluene	T	ug/L	15000	**0.27** J	< 0.50	< **0.12** J	**0.13** J
Trichloroethene	T	ug/L	30	**0.11** J	< 0.50	< 0.50	< 0.50
1,2,4-Trimethylbenzene	T	ug/L	NV	< 1.0	< 1.0	< 2.0	< 2.0
cPAH							
Benzo(a)pyrene	T	ug/L	See Total	< 0.02	< 0.020	< 0.019	< 0.021
Benzo(a)anthracene	T	ug/L	See Total	< 0.02	**0.006** J	< 0.019	< 0.021
Benzo(b)fluoranthene	T	ug/L	See Total	< 0.02	**0.0047** J	< 0.019	< 0.021
Benzo(k)fluoranthene	T	ug/L	See Total	< 0.02	**0.0041** J	< 0.019	< 0.021
Chrysene	T	ug/L	See Total	< 0.02	**0.005** J	< 0.019	< 0.021
Dibenzo(a,h)anthracene	T	ug/L	See Total	< 0.02	**0.0052** J	< 0.019	< 0.021
Indeno(1,2,3-cd)pyrene	T	ug/L	See Total	< 0.02	**0.0059** J	< 0.019	< 0.021
Total cPAH TEQ	T	ug/L	0.15	< 0.030	**0.023**	< 0.014	< 0.016
SVOC							
bis(2-Ethylhexyl)phthalate	T	ug/L	1.7 (RvAL) [3]	< 0.98	< 1.0	< 0.98	< 1.0
Butyl Benzyl Phthalate	T	ug/L	1900	< 0.2	< 0.2	< 0.2	< 0.2
Di-n-butyl Phthalate	T	ug/L	4500	< 0.2	< 0.2	< 0.2	< 0.2
Phenol	T	ug/L	10000	< 0.49	< 0.50	< 0.49	< 0.50
Naphthalene	T	ug/L	NV	**0.02**	**0.031**	**0.16** J	**0.11** J
Conventionals							
Solids, Volatile Suspended	T	mg/L	NV	NA	NA	NA	NA
Total Suspended Solids	T	mg/L	NV	< 5.0	< 5.0	< 5.0	< 5.0
Dioxin/Furans (only detected congeners shown)							
OCTACHLORODIBENZO-P-DIOXIN	T	pg/L	NV	NA	NA	NA	NA
TOTAL HEPTACHLORODIBENZO-P-DIOXINS	T	pg/L	NV	NA	NA	NA	NA
TOTAL HEPTACHLORODIBENZOFURANS	T	pg/L	NV	NA	NA	NA	NA
Total TEQ Dioxin/Furans	T	ug/L	5.8E-06 [6]	NA	NA	NA	NA

Table 5 T-117 Groundwater Detections First Quarter 2008 to Second Quarter 2012

Notes:

Red Detected value that exceeds screening level

Bold Detected result

Blue Non-detected value that exceeds the screening level

< Non-detect at the reporting limit shown

A Reported result is likely a combination of Aroclor 1254/1260; accurate identification of Aroclor 1254 cannot

B The analyte was found in the associated method blank as well as the sample

FD Field Duplicate

J Estimated concentration

J- Estimated concentration, biased low

Y Eluting in approximately the correct range, but elution pattern does not match the calibration standard

O Resembles a petroleum product eluting in approximately the correct range, but does not match the calibration standard

H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.

NA Not Analyzed

NV No established value

ND No individual constituent detected above the reporting limit

mg/L milligram per liter

ug/L microgram per liter

RvAL Removal action level for groundwater as listed in the Terminal 117 Early Action Area Revised EE/CA applied to samples obtained after June 2010. Refer to footnotes below for changes in screening/action levels.

Screening levels are proposed levels only, for delineation of the groundwater monitoring well network

TPH/NWTPH screening levels obtained from the MTCA Method A Cleanup Level for groundwater

PCB screening levels are obtained from the Surface Water ARAR - Aquatic Life - Marine/Chronic - National Toxics Rule, 40 CFR 131

Cadmium, chromium, copper, lead, and silver screening levels obtained from the WAC Chapter 173-201A- Aquatic Life - Marine/Acute Water Quality Standards for Surface Waters of the State of Washington

All other groundwater screening levels were obtained from the Surface Water ARAR - Human Health – Marine – Clean Water Act §304

* Indicates RvAL is the same as the screening level previously applied prior to publication of EE/CA

[1] Prior to establishment of the RvAL in June 2010, the detected concentrations of arsenic were compared to a screening level of 0.00014 mg/L

[2] Prior to establishment of the RvAL in June 2010 for total PCBs, the detected concentrations of individual arochlors were compared to a screening level of 0.03 ug/L

[3] Prior to establishment of the RvAL in June 2010, the detected concentrations of bis (2-Ethylhexyl)phthalate were compared to a screening level of 2.2 ug/L

[4] Prior to establishment of the RvAL in June 2010, the detected concentrations of cPAHs were compared to a screening level of 0.018 ug/L for individual cPAHs

[5] RvAL for cPAHs based on total cPAHs TEQ

[6] Dioxin and furan results were compared to the Safe Drinking Water Act published maximum contaminant level (MCL) for 2,3,7,8-TCDD of 3e-05 µg/L, adjusted to a value of 5.8e-06 µg/L in compliance with MTCA equation 720-2. For the TEF calculation, one-half of the estimated detection limit (EDL) is used for non-detected congeners

APPENDIX A.14

Independent SPU Interim Action Analytical Data and Excavations

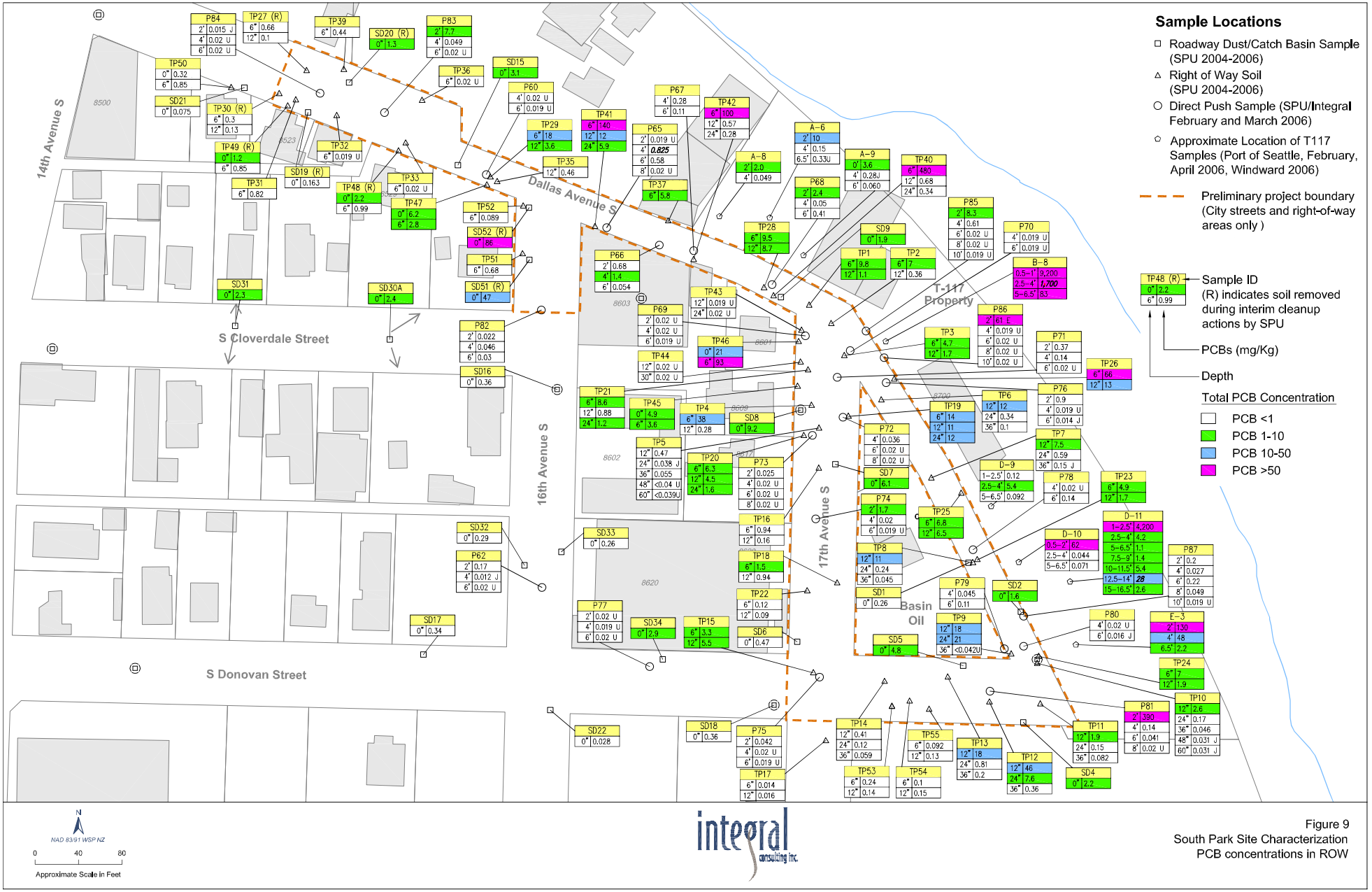


Figure 9
South Park Site Characterization
PCB concentrations in ROW

Map Document: (SH-SCP-Sample Plans.dwg) - Layout: PCB levels gt 1mg/kg in ROW (2)
5/22/2006 - 2:34:41 PM ----

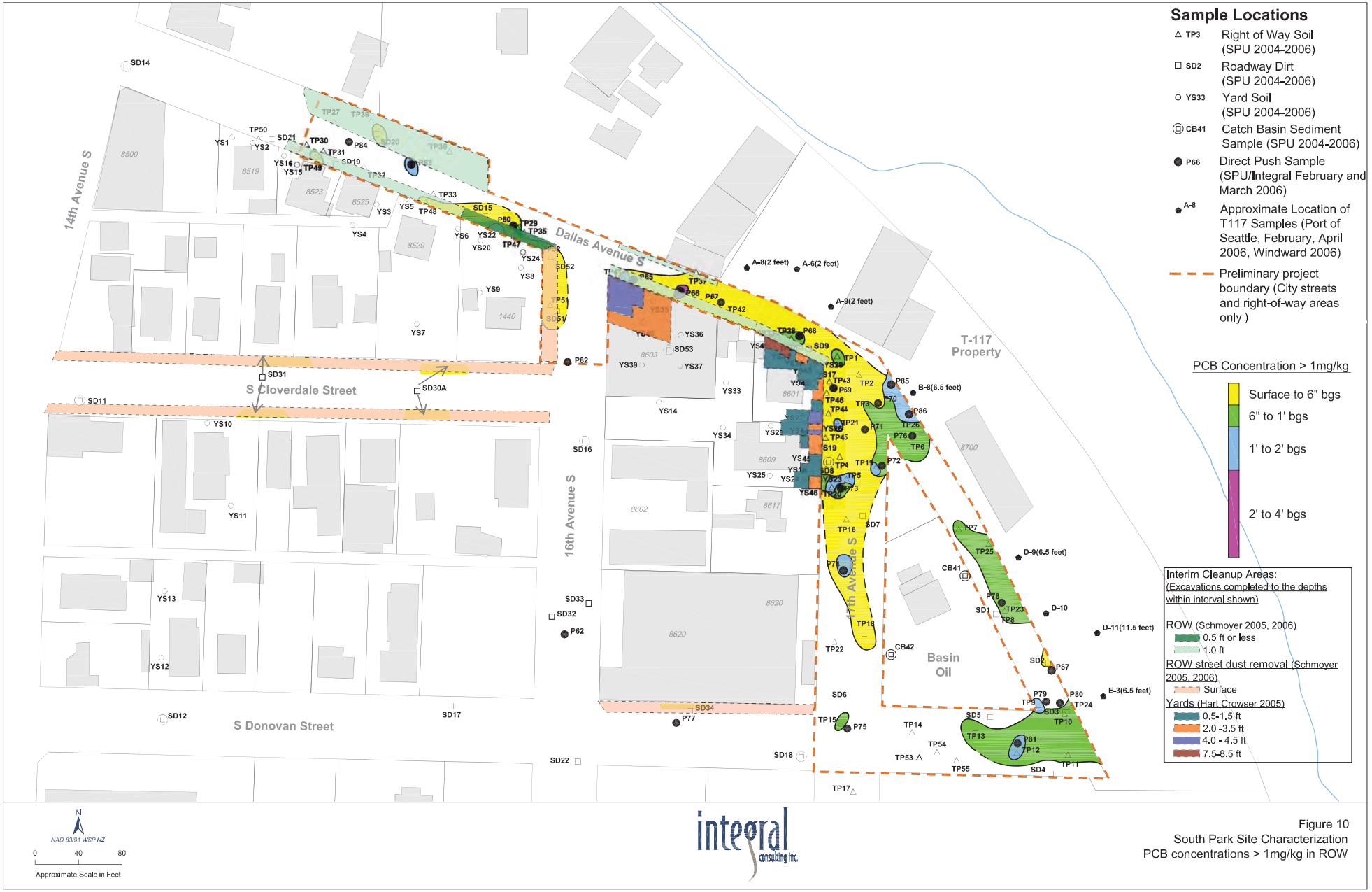
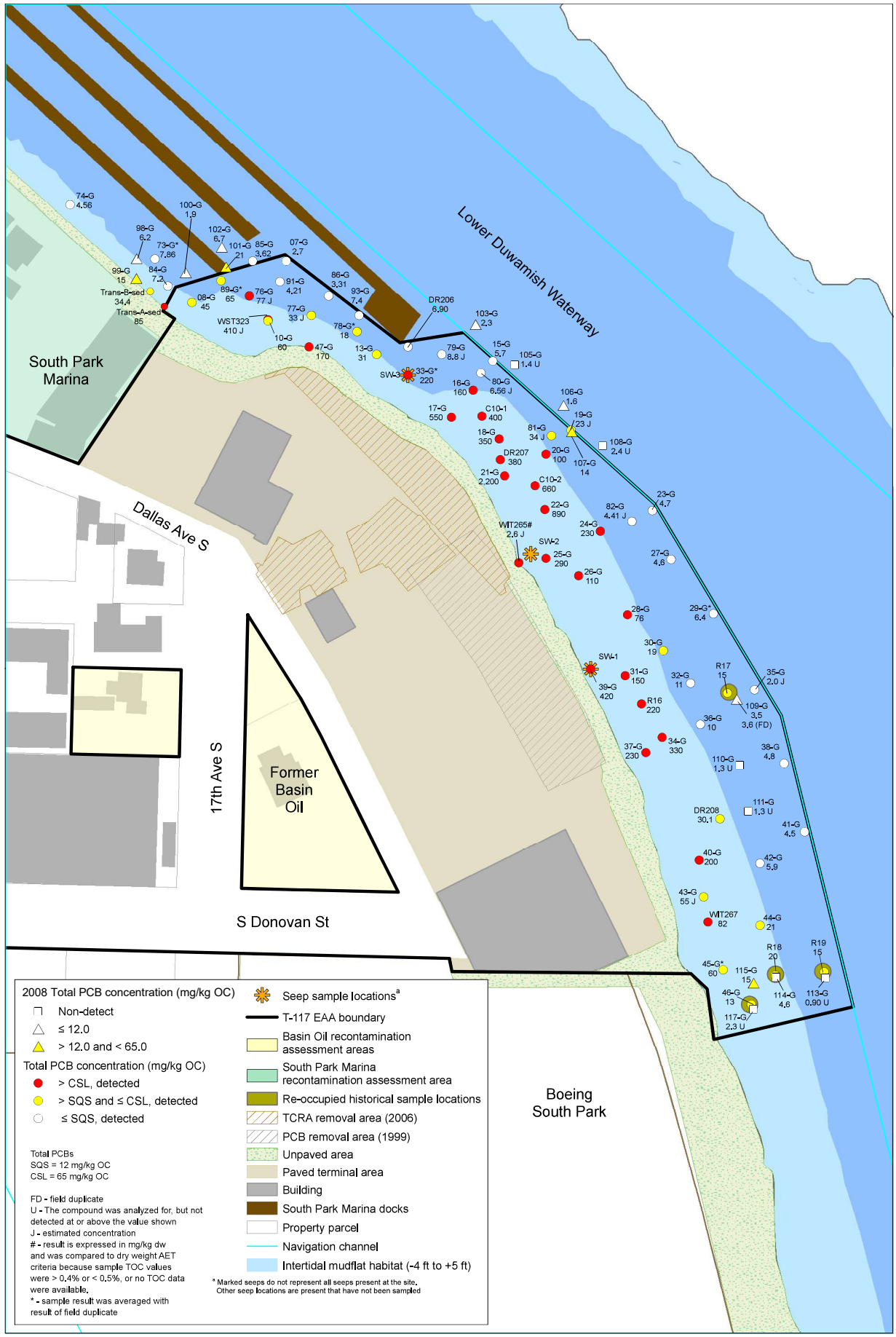


Figure 10
South Park Site Characterization
PCB concentrations > 1mg/kg in ROW

Map Document: (SH-SCP-Sample Plans.dwg) - Layout: PCB levels gt 1mg/kg in ROW (2)
4/28/2006 - 10:38:38 AM ----

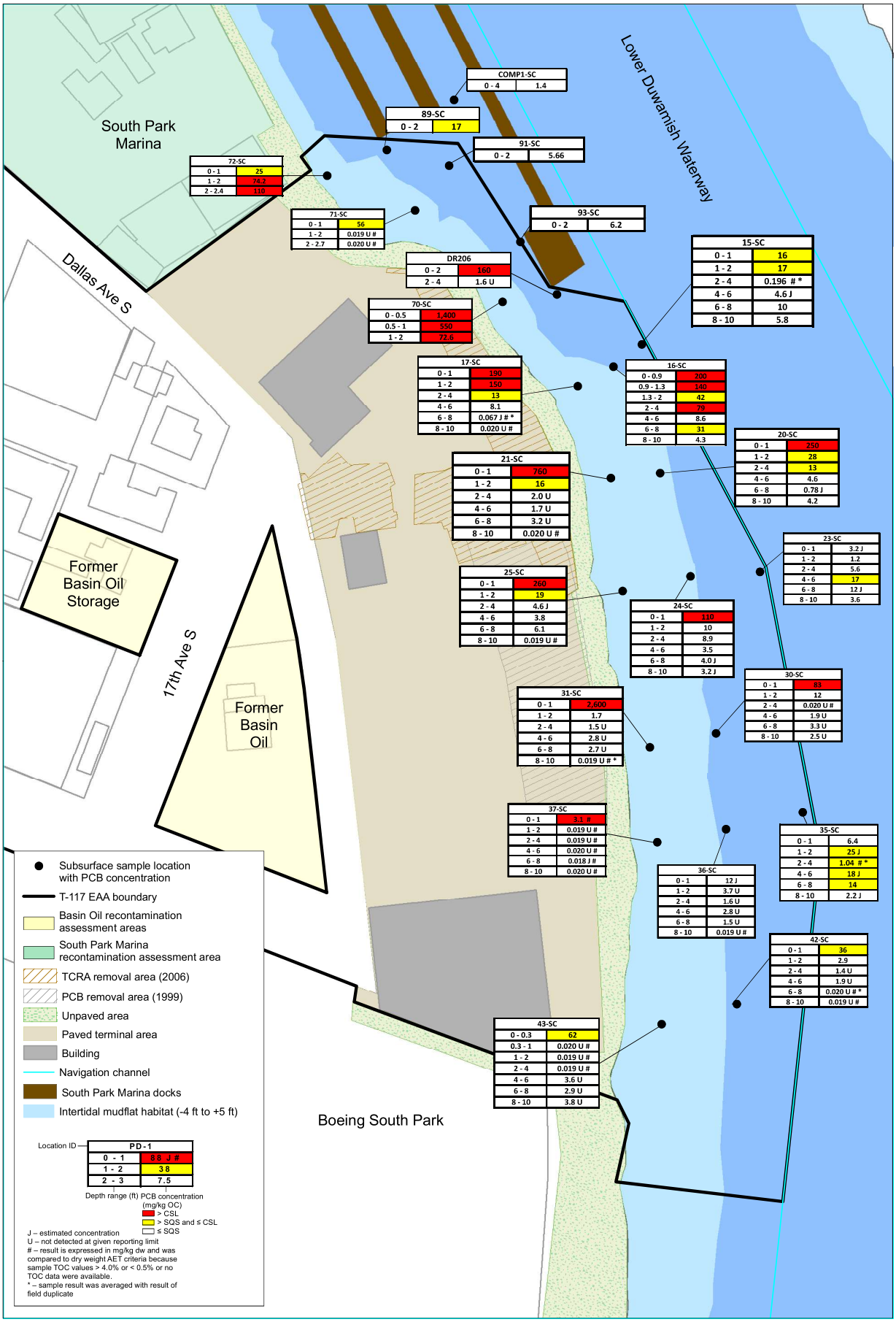
APPENDIX A.15

Pre-Removal Analytical Results - T-117 Sediment Area



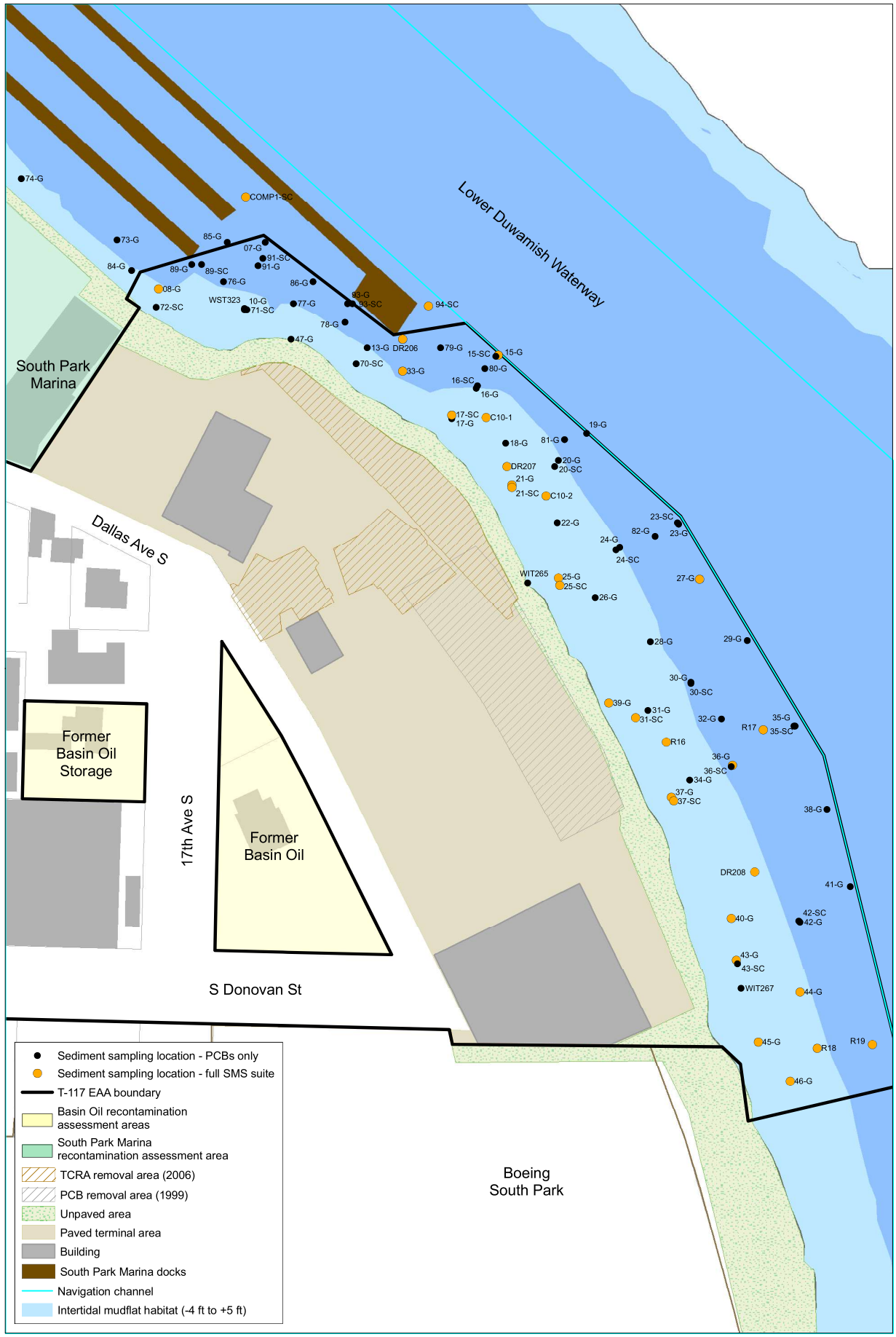
Map 2-8. T-117 Sediment Study Area total PCB concentrations in surface sediment

Prepared by KH 11/27/2007, revised by KH 02/20/2008 & by MTY 11/20/2009. Map 3106, W:\Projects\03-08-12 T-117 (Malarkey)\Data\GIS\2008 EECA



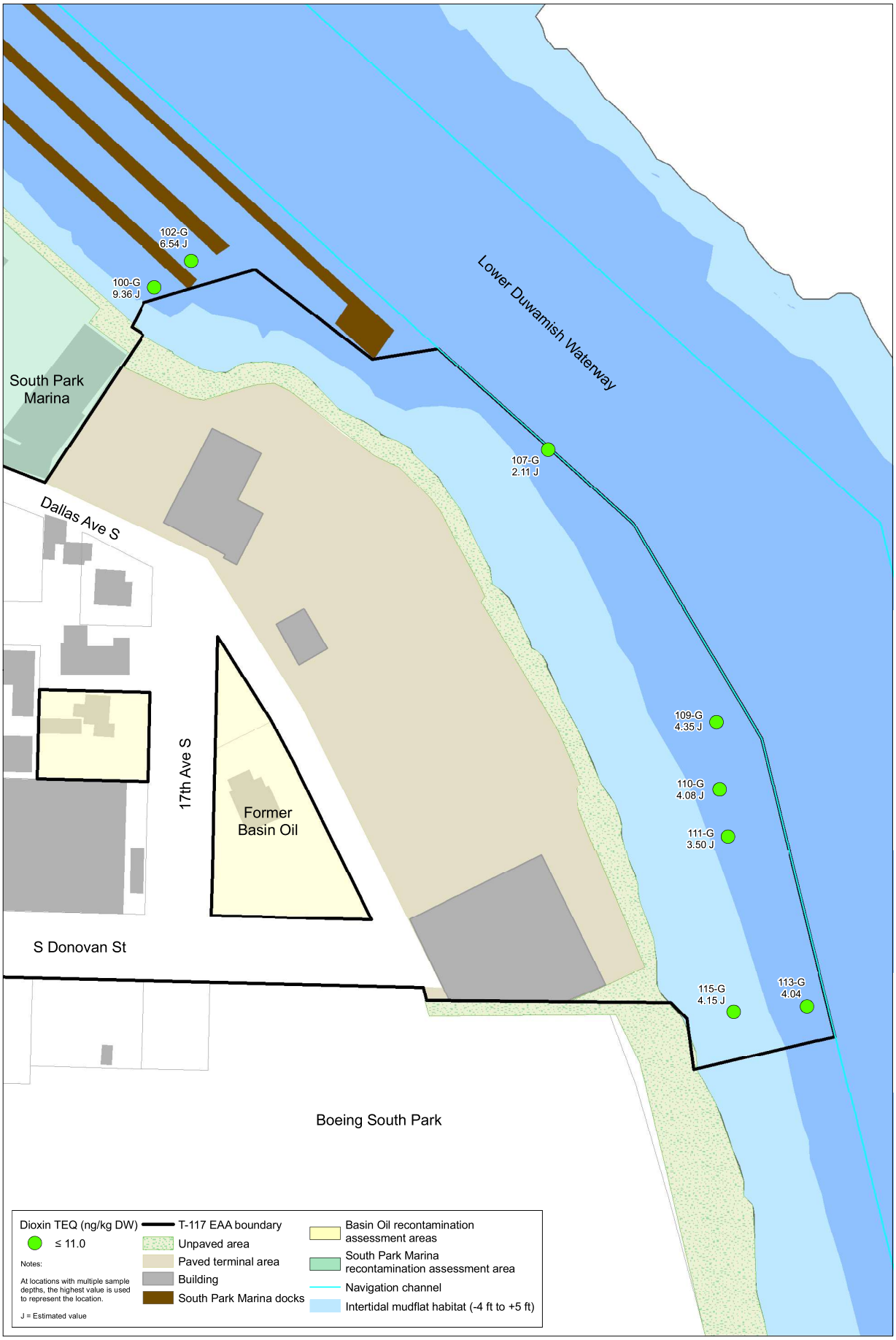
Map 2-9. T-117 Sediment Study Area total PCB concentrations in subsurface sediment

Prepared by CEH 11/26/07, revised by KH 02/15/2008, CEH 02/20/2008, MTY 01/07/2010; Map 3109, W:\Projects\03-08-12 T-117 (Malarkey)\Data\GIS\2008 EECA



Map 2-10. T-117 Sediment Study Area sampling locations with full suite SMS analyses

Prepared by CEH 02202008, revised KH 03/07/2008, MTY 01/08/10; Map 3161; W:\Projects\03-08+12 T-117 (Malarkey)\Data\GIS\2008 EECA

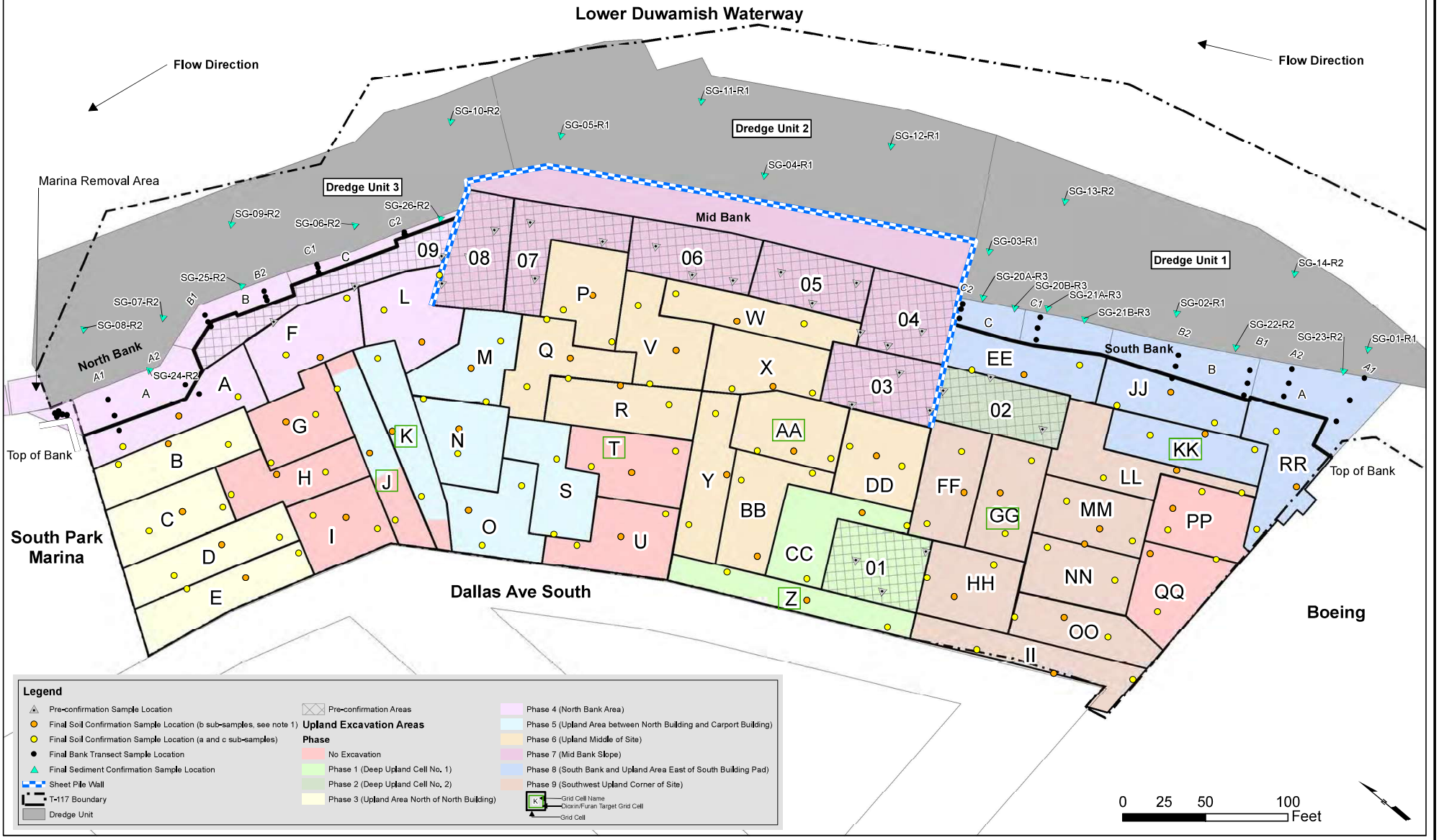


Map 2-11. T-117 Sediment Study Area dioxin/furan TEQs in surface sediment

Prepared by MTY 08/03/09; Map: 3912; W:\Projects\03-08-12 T-117 (Malarkey)\Data\GIS\EECA\EECA_2009

APPENDIX A.16

Post-Removal Analytical Results - T-117 Sediment Area



1. Soil confirmation sample locations reported in the project database will be given the coordinate of the b sub-sample location, in accordance with the QAPP.
2. Additional dredging of the bank transitions area (i.e. elevation 0 to 2 ft MLLW) was performed in the area of sediment samples SG-20A and SG-20B after samples were obtained. However, additional sediment samples were not obtained prior to backfilling.

AECOM

T-117 CLEANUP REMOVAL ACTION CONSTRUCTION REPORT			FINAL SOIL, BANK, AND SEDIMENT CONFIRMATION SAMPLING LOCATIONS	
DATE: 3/25/2016	DRWN:lmh/sea	Revision: 0	Project No: 60288925	Figure 6

Path: P:\ENV\PROJECTS\WPort of Seattle\T-117 Cleanup Oversight\900-CAD-GIS\AECOM\MXD\RACR\Figure 6 Confirmation Sampling Locations\V10.mxd

Table 5-4 Sediment Confirmation Sampling Results

					Dredge Unit 3																	
Row:					**Nearshore**						**Nearshore**						**Offshore**					
Location:					**SG-06**						**SG-07**						**SG-08**					
Sample ID:					**SG-06-R2**						**SG-07-R2**						**SG-08-R2**					
Round:					**2**						**2**						**2**					
Initial Report Date:					**3/14/2014**						**3/14/2014**						**3/14/2014**					
Total organic carbon (%):					**0.634**						**0.05 U**						**2.14**					
Chemical	RvAL	Units	Alternate RvAL[1]	Units	Conc	Qual	Unit	RvAL	>RvAL	EF	Conc	Qual	Unit	RvAL	>RvAL	EF	Conc	Qual	Unit	RvAL	>RvAL	EF
Arsenic	12	mg/kg			4.71		mg/kg	12	No	0.39	1.85		mg/kg	12	No	0.15	7.13		mg/kg	12	No	0.59
2-Methylnaphthalene	38	mg/kg OC	670	µg/kg	0.47	U	mg/kg OC	38	No	0.012	3	U	ug/kg	670	No	0.005	0.14	U	mg/kg OC	38	No	0.0037
Acenaphthene	16	mg/kg OC	500	µg/kg	0.47	U	mg/kg OC	16	No	0.029	3	U	ug/kg	500	No	0.006	0.14	U	mg/kg OC	16	No	0.0088
Anthracene	220	mg/kg OC	960	µg/kg	0.47	U	mg/kg OC	220	No	0.0021	3	U	ug/kg	960	No	0.0031	0.14	U	mg/kg OC	220	No	0.0006
Dibenzofuran	15	mg/kg OC	540	µg/kg	0.47	U	mg/kg OC	15	No	0.031	3	U	ug/kg	540	No	0.0056	0.14	U	mg/kg OC	15	No	0.0093
Fluoranthene	160	mg/kg OC	1700	µg/kg	2.5		mg/kg OC	160	No	0.016	4.8		ug/kg	1700	No	0.0028	0.7		mg/kg OC	160	No	0.0044
Fluorene	23	mg/kg OC	540	µg/kg	0.47	U	mg/kg OC	23	No	0.020	3	U	ug/kg	540	No	0.0056	0.14	U	mg/kg OC	23	No	0.0
Phenanthrene	100	mg/kg OC	1500	µg/kg	1.3		mg/kg OC	100	No	0.013	3	U	ug/kg	1500	No	0.002	0.36		mg/kg OC	100	No	0.0036
cPAHs	90	µg/kg			13		ug/kg	90	No	0.14	5.1		ug/kg	90	No	0.057	34		ug/kg	90	No	0.38
Phenol	420	µg/kg			3.0	U	ug/kg	420	No	0.0071	3.0	U	ug/kg	420	No	0.0071	3.0	U	ug/kg	420	No	0.0071
Total PCBs	12	mg/kg OC	0.13	mg/kg	5.8		mg/kg OC	12	No	0.48	0.38		mg/kg	0.13	Yes	2.9	1.5		mg/kg OC	12	No	0.13
Dioxin/furan TEQ[2]	13	ng/kg			-						1.13		ng/kg	13	No	0.087	-					
RvAL exceeded for any chemical?:					**No**						**Yes**						**No**					

TOC <0.5%; AET substitution applied

					Dredge Unit 3											
Row:					**Offshore**						**Offshore**					
Location:					**SG-09**						**SG-10**					
Sample ID:					**SG-09-R2**						**SG-10-R2**					
Round:					**2**						**2**					
Initial Report Date:					**3/14/2014**						**3/14/2014**					
Total organic carbon (%):					**0.642**						**1.01**					
Chemical	RvAL	Units	Alternate RvAL[1]	Units	Conc	Qual	Unit	RvAL	>RvAL	EF	Conc	Qual	Unit	RvAL	>RvAL	EF
Arsenic	12	mg/kg			2.3		mg/kg	12	No	0.19	4.02		mg/kg	12	No	0.34
2-Methylnaphthalene	38	mg/kg OC	670	µg/kg	0.5	U	mg/kg OC	38	No	0.012	0.3	U	mg/kg OC	38	No	0.0079
Acenaphthene	16	mg/kg OC	500	µg/kg	0.5	U	mg/kg OC	16	No	0.0290	0.3	U	mg/kg OC	16	No	0.019
Anthracene	220	mg/kg OC	960	µg/kg	0.5	U	mg/kg OC	220	No	0.0021	0.3	U	mg/kg OC	220	No	0.0014
Dibenzofuran	15	mg/kg OC	540	µg/kg	0.5	U	mg/kg OC	15	No	0.031	0.3	U	mg/kg OC	15	No	0.02
Fluoranthene	160	mg/kg OC	1700	µg/kg	1.1		mg/kg OC	160	No	0.0069	2.1		mg/kg OC	160	No	0.013
Fluorene	23	mg/kg OC	540	µg/kg	0.5	U	mg/kg OC	23	No	0.02	0.38		mg/kg OC	23	No	0.017
Phenanthrene	100	mg/kg OC	1500	µg/kg	0.6		mg/kg OC	100	No	0.0061	2		mg/kg OC	100	No	0.02
cPAHs	90	µg/kg			7.1		ug/kg	90	No	0.079	21		ug/kg	90	No	0.23
Phenol	420	µg/kg			3.0	U	ug/kg	420	No	0.0071	3.0	U	ug/kg	420	No	0.0071
Total PCBs	12	mg/kg OC	0.13	mg/kg	3.1	U	mg/kg OC	12	No	0.26	8.3		mg/kg OC	12	No	0.69
Dioxin/furan TEQ[2]	13	ng/kg			0.441		ng/kg	13	No	0.034	-					
RvAL exceeded for any chemical?:					**No**						**No**					

Notes:
(1) The alternate RvAL, based on AET dry weight value, is used for sediment screening only when TOC is <0.5% or >4%. Otherwise, sediment samples are compared to oc-normalized values as appropriate.
(2) Dioxin/furan TEQ is reported for informational purposes only; results are not used for decision-making purposes

Table 5-5 Sediment Perimeter Sampling Results

	Criteria					Location:	PERIM-1		PERIM-2		PERIM-3		PERIM-4		PERIM-5			
						Sample ID:	SG-PERIM-1-PRE	SG-PERIM-1-POST	SG-PERIM-2-PRE	SG-PERIM-2-POST	SG-PERIM-3-PRE	SG-PERIM-3-POST	SG-PERIM-4-PRE	SG-PERIM-4-POST	SG-PERIM-5-PRE	SG-PERIM-6-PRE (field dup)	SG-PERIM-5-POST	SG-PERIM-6-POST (field dup)
						Sample date:	11/22/2013	5/12/2014	11/22/2013	5/12/2014	11/22/2013	5/12/2014	11/22/2013	5/12/2014	11/22/2013	5/12/2014	11/22/2013	5/12/2014
						TOC (%):	0.566	1.05	1.17	4.31	1.28	0.871	1.33	1.22	2.30	2.24	1.38	1.21
Chemical	RvAL	SCO	Units	LAET	Units													
Metals																		
Arsenic	12	57	mg/kg dw				9.24	8.02	9.54	9.97	8.21	2.92	8.59	3.49	15.8	15.0	4.26	4.40
Cadmium		5.1	mg/kg dw				1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chromium		260	mg/kg dw				10 U	7.39 J	15.5	16.9 J	13.4	10.5 J	14.3	9.94 J	16.6	16.1	12.7 J	12.5 J
Copper		390	mg/kg dw				16.2	17.6	35.4	35.7	27.8	17.4	31.5	16.8	41.2	49.8	21.8	21.2
Lead		450	mg/kg dw				11.2	16.6	13.9	16.8	11.4	5.11	11.5	6.44	17.0	16.6	7.02	6.94
Mercury		0.41	mg/kg dw				0.1 U	0.097	0.24 J	0.19	0.11 J	0.063	0.11 J	0.075	0.15 J	0.15 J	0.071	0.063
Silver		6.1	mg/kg dw				1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Zinc		410	mg/kg dw				45.9 J	72.2	72.6 J	78.4	66.1 J	31.8	63.4 J	36.8	79.4 J	84.3 J	39.7	39.9
PAHs																		
2-Methylnaphthalene	38	38	mg/kg OC	0.67	mg/kg dw		0.18 U	0.48 U	0.28	0.010 U [a]	0.22	0.57 U	0.27	0.41 U	0.18 J	0.58 J	0.40	0.60
Acenaphthene	16	16	mg/kg OC	0.5	mg/kg dw		0.42	0.48 U	0.25	0.010 U [a]	0.19	0.57 U	0.30	0.41 U	1.7 U	1.8 U	0.36 U	0.99
Acenaphthylene		66	mg/kg OC	1.3	mg/kg dw		0.35 U	0.48 U	0.21	0.010 U [a]	0.16 U	0.57 U	0.19	0.41 U	1.7 U	1.8 U	0.36 U	0.41 U
Anthracene	220	220	mg/kg OC	0.96	mg/kg dw		0.95	0.48 U	1.7	0.016 [a]	0.55	0.57 U	0.69	0.64	4.2 J	2.5 J	0.80	1.8
Benzo(a)anthracene		110	mg/kg OC	1.3	mg/kg dw		4.1	2.9	2.9	0.057 [a]	2.6	1.3	3.4	3.0	19	16	1.2	4.5
Benzo(a)pyrene		99	mg/kg OC	1.6	mg/kg dw		5.8	3.0	3.5	0.055 [a]	3.0	1.4	3.5	2.6	14	13	1.2	4.9
Benzo(g,h,i)perylene		31	mg/kg OC	0.67	mg/kg dw		4.9	2.5	2.9	0.053 [a]	2.4	1.3	2.4	1.6	7.4	7.1	1.1	3.7
Total benzofluoranthenes		230	mg/kg OC	3.2	mg/kg dw		13	6.7	9.32	0.14 [a]	7.4	3.3	4.1	5.9	35	33	2.6	8.35
Chrysene		110	mg/kg OC	1.4	mg/kg dw		6.9	4.2	5.0	0.093 [a]	3.7	1.8	4.2	3.5	17	17	1.9	5.9
Dibenzo(a,h)anthracene		12	mg/kg OC	0.23	mg/kg dw		1.0	0.54	0.62	0.010 U [a]	0.55	0.57 U	0.53	0.41 U	1.9	1.8 U	0.36 U	0.62
Dibenzofuran	15	15	mg/kg OC	0.54	mg/kg dw		0.23	0.26	0.26	0.0074 [a]	0.21	0.23 U	0.32	0.28	0.39 J	1.5 J	0.37	0.61
Fluoranthene	160	160	mg/kg OC	1.7	mg/kg dw		13	8.4	8.5	0.15 [a]	5.5	3.4	9.0	8.2	57	45	3.3	9.1
Fluorene	23	23	mg/kg OC	0.54	mg/kg dw		0.49	0.48 U	0.68	0.010 U [a]	0.24	0.57 U	0.38	0.41 U	2.2	1.8 U	0.39	1.1
Indeno(1,2,3-cd)pyrene		34	mg/kg OC	0.6	mg/kg dw		5.3	2.7	3.2	0.050 [a]	2.7	1.3	2.6	1.8	8.3	8.0	1.0	3.6
Naphthalene		99	mg/kg OC	2.1	mg/kg dw		0.35 U	0.48 U	0.21	0.010 U [a]	0.16	0.57 U	0.17	0.41 U	1.7 U	1.8 U	0.36 U	0.55
Phenanthrene	100	100	mg/kg OC	1.5	mg/kg dw		7.4	4.2	4.1	0.064 [a]	2.2	1.5	3.4	3.9	27 J	8.5 J	2.0	8.3
Pyrene		1000	mg/kg OC	2.6	mg/kg dw		13	7.4	7.9	0.13 [a]	5.7	2.9	8.3	7.9	41	33	3.1	12
Total HPAHs		960	mg/kg OC	12	mg/kg dw		66.4	38.3	44	0.73 [a]	33.5	16.6	38	34	200	170	15.3	52
Total LPAHs		370	mg/kg OC	5.2	mg/kg dw		9.4	4.2	7.2	0.080 [a]	3.4	1.5	5.1	4.6	33 J	11 J	3.2	12
cPAHs	0.09		mg/kg dw				0.046	0.046	0.060	0.081	0.056	0.017	0.061	0.046	0.48	0.43	0.023	0.080
Phthalates																		
Bis(2-ethylhexyl)phthalate		47	mg/kg OC	1.3	mg/kg dw		12	12 J	10 J	0.44 J [a]	7.8 J	9.1 J	7.5	6.3 J	4.8	6.7	8.7 J	11 J
Butyl benzyl phthalate		4.9	mg/kg OC	0.063	mg/kg dw		1.0 U	0.95 U	1.5 J	0.029 [a]	0.64 J	1.1 U	0.75	0.82 U	0.65 J	1.5 J	0.72 UJ	0.83 U
Diethyl phthalate		61	mg/kg OC	0.2	mg/kg dw		0.71 U	0.95 U	0.35	0.020 U [a]	0.31 U	1.1 U	0.30 U	0.82 U	0.17 U	0.20	0.72 U	0.83 U
Dimethyl phthalate		53	mg/kg OC	0.071	mg/kg dw		0.48	0.95 U	0.54	0.020 U [a]	0.43	1.1 U	0.41	0.82 U	0.57	0.58	0.72 U	0.83 U
Di-n-butyl phthalate		220	mg/kg OC	1.4	mg/kg dw		3.5 U	0.95 U	1.7 U	0.040 [a]	1.6 U	1.1 U	1.5 U	0.82 U	0.87 U	0.89 U	0.72 U	0.83 U
Di-n-octyl phthalate		58	mg/kg OC	6.2	mg/kg dw		0.57 U	1.2	0.27 U	0.020 U [a]	0.31	1.1 U	0.24 U	0.82 U	0.24 J	0.42 J	0.72 U	0.83 U
Other SVOCs																		
1,2,4-Trichlorobenzene		0.81	mg/kg OC	0.031	mg/kg dw		0.99	0.19 U	0.66	0.0040 U [a]	0.31	0.23 U	0.45	0.16 U	0.39	0.26	0.14 U	0.17 U
1,2-Dichlorobenzene		2.3	mg/kg OC	0.035	mg/kg dw		0.71 U	0.19 U	0.35	0.0040 U [a]	0.31 U	0.23 U	0.30 U	0.16 U	0.22	0.18 U	0.14 U	0.17 U
1,4-Dichlorobenzene		3.1	mg/kg OC	0.11	mg/kg dw		0.42 U	0.19 U	0.30	0.0040 U [a]	0.19 U	0.23 U	0.18 U	0.16 U	0.13	0.17	0.14 U	0.17 U
2,4-Dimethylphenol		0.03	mg/kg dw				0.019 U	0.010 U	0.019 U	0.020 U	0.019 U	0.010 U	0.019 U	0.010 U	0.019 U	0.019 U	0.010 U	0.010 U
2-Methylphenol		0.06	mg/kg dw				0.0064 U	0.0020 U	0.0064 U	0.0040 U	0.0064 U	0.0020 U	0.0064 U	0.0020 U	0.0064 U	0.0064 U	0.0020 U	0.0020 U
3/4-Methylphenol		0.67	mg/kg dw				0.059	0.0040 U	0.014 U	0.018	0.014 U	0.0040 U	0.014 U	0.0040	0.014 U	0.014 U	0.0040 U	0.0040 U
Benzoic acid		0.65	mg/kg dw				0.054 U	0.10 U	0.054 U	0.20 U	0.054 U	0.10 U	0.054 U	0.10 U	0.054 U	0.059 J	0.10 U	0.10 U
Benzyl alcohol		0.06	mg/kg dw				0.020	0.020 U	0.052	0.040 U	0.034	0.020 U	0.018	0.020 U	0.035 J	0.067 J	0.020 U	0.020 U
Hexachlorobenzene		0.38	mg/kg OC	0.022	mg/kg dw		0.18 UJ	0.19 U	0.085 UJ	0.0040 U [a]	0.078 UJ	0.23 U	0.075 U	0.16 U	0.043 UJ	0.045 UJ	0.14 U	0.17 U
Hexachlorobutadiene		3.9	mg/kg OC	0.011	mg/kg dw		0.35 U	0.19 U	0.17 U	0.0040 U [a]	0.16 U	0.23 U	0.15 U	0.16 U	0.087 U	0.089 U	0.14 U	0.17 U
n-Nitrosodiphenylamine		11	mg/kg OC	0.028	mg/kg dw		0.18 UJ	0.19 U	0.11 J	0.0040 U [a]	0.078 UJ	0.23 U	0.075 UJ	0.16 U	0.043 UJ	0.045 UJ	0.14 U	0.17 U
Pentachlorophenol		0.36	mg/kg dw				0.0062 UJ	0.010 U	0.0097 J	0.020 U	0.0062 UJ	0.010 U	0.0062 UJ	0.010 U	0.0062 UJ	0.0062 UJ	0.010 U	0.010 U
Phenol	0.42	0.42	mg/kg dw				0.020	0.0020 U	0.0057	0.0040 U	0.0054 U	0.0020 U	0.0054 U	0.0020 U	0.0070	0.0063	0.0020 U	0.0020 U
PCBs																		
Total PCBs	12	12	mg/kg OC	0.13	mg/kg dw		10	14.9	4.3	0.074 [a]	2.3	1.50	4.1	3.8	7.0	8.5	2.6	3.6 J
Dioxin/furan																		
Dioxin/furan TEQ	13		ng/kg dw				1.41 J	1.88 J	54.8 J	4.12 J	2.40 J	1.20 J	2.35 J	1.62 J	6.55 J	8.43 J	1.30 J	1.84 J

Notes:

All values are reported in RvAL/SCO units, except where noted (see footnote 'a')

Orange-highlighted values exceed the RvAL or SCO (note: arsenic is the only chemical with an RvAL different from the SCO)

There were no exceedances of CSL or 2LAET criteria

[a] TOC exceeded 4% for this sample; dry-weight result was compared to LAET/2LAET criteria.

dw - dry-weight

OC - organic carbon-normalized

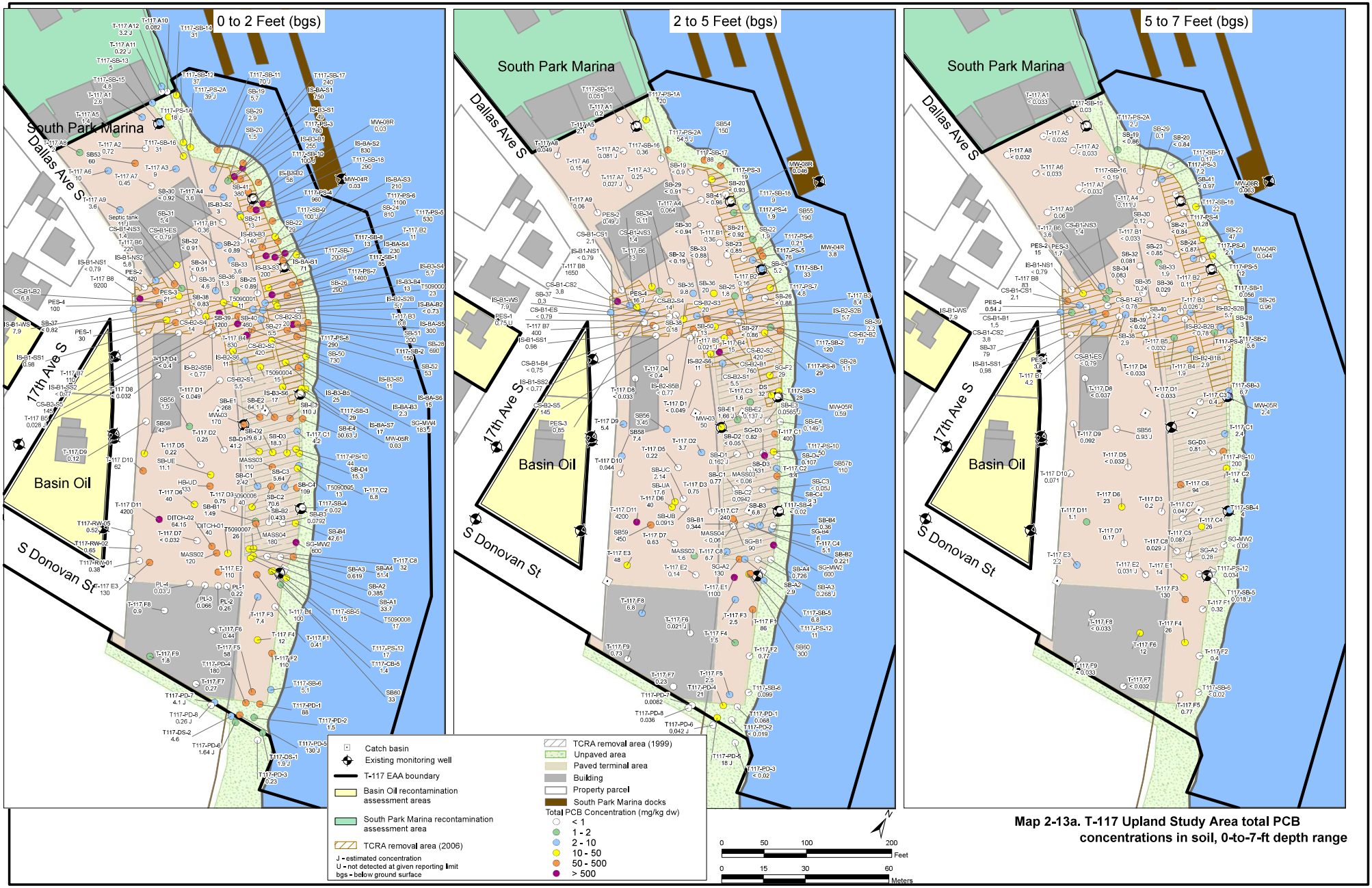
APPENDIX A.17

Pre-Removal Analytical Results - T-117 Upland Area



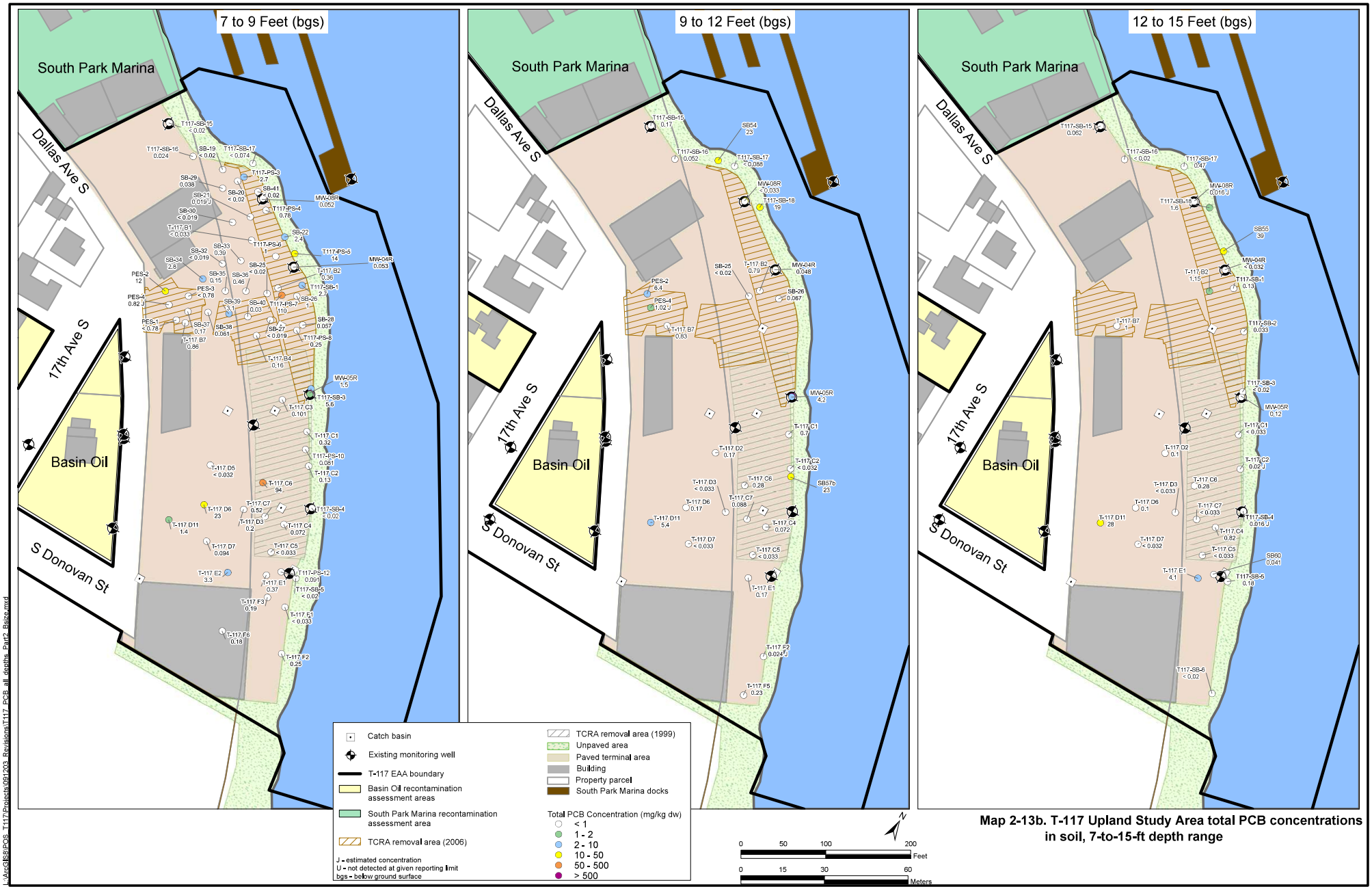
Map 2-12. T-117 Upland Study Area sampling subareas

L:\ArcGIS8\POS_T117\Projects\091203_Revisions\UplandSamplingSubareas.mxd



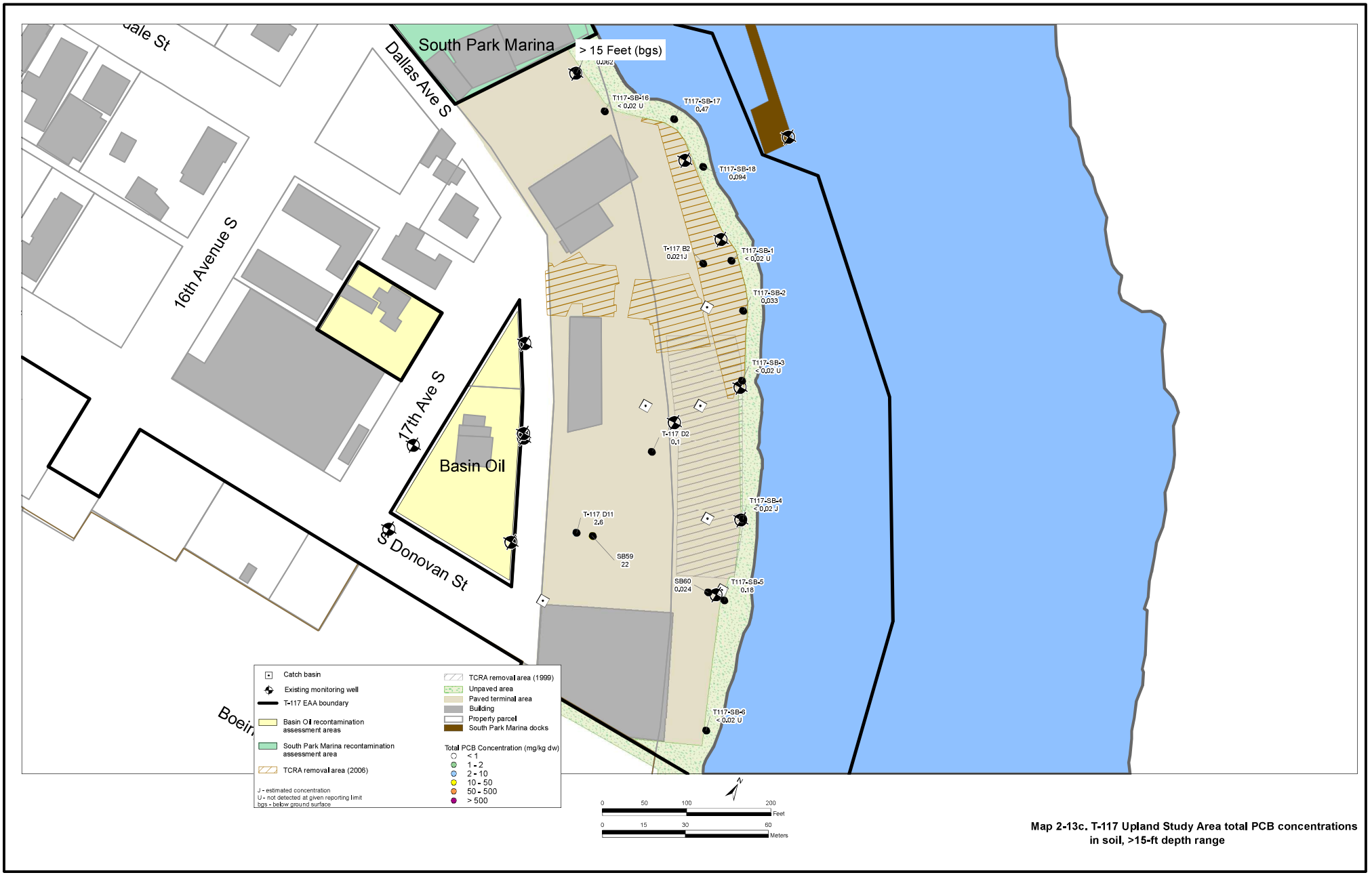
Map 2-13a. T-117 Upland Study Area total PCB concentrations in soil, 0-to-7-ft depth range

L:\ArcGIS\83\POS_T117\Projects\091203_Revisions\T117_PCB_all_depths_Part1_Belize.mxd



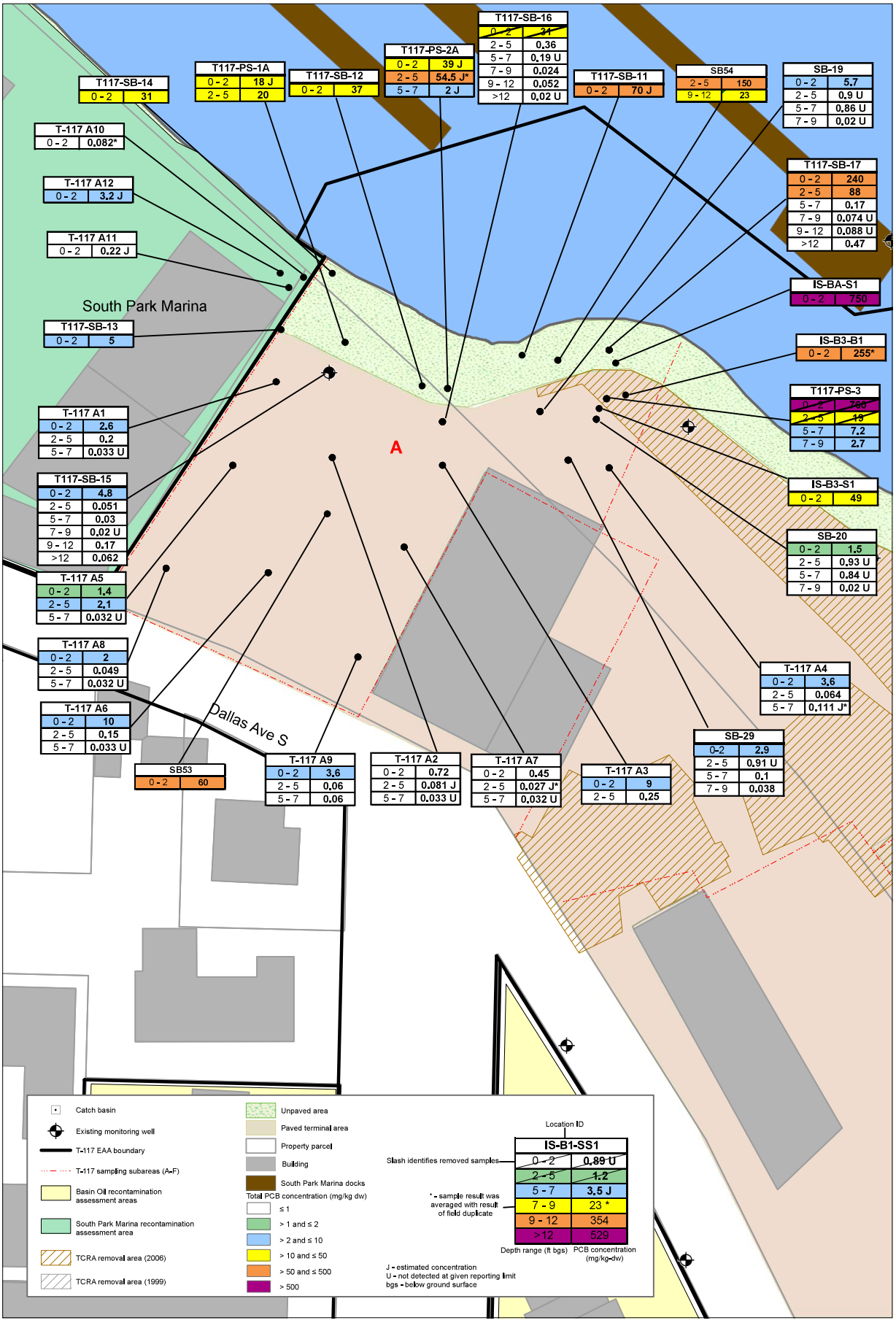
Map 2-13b. T-117 Upland Study Area total PCB concentrations in soil, 7-to-15-ft depth range

L:\ArcGIS\BPOS_T117\Projects\091203_Revisions\T117_PCB_all depths_Part2_Beitz.mxd



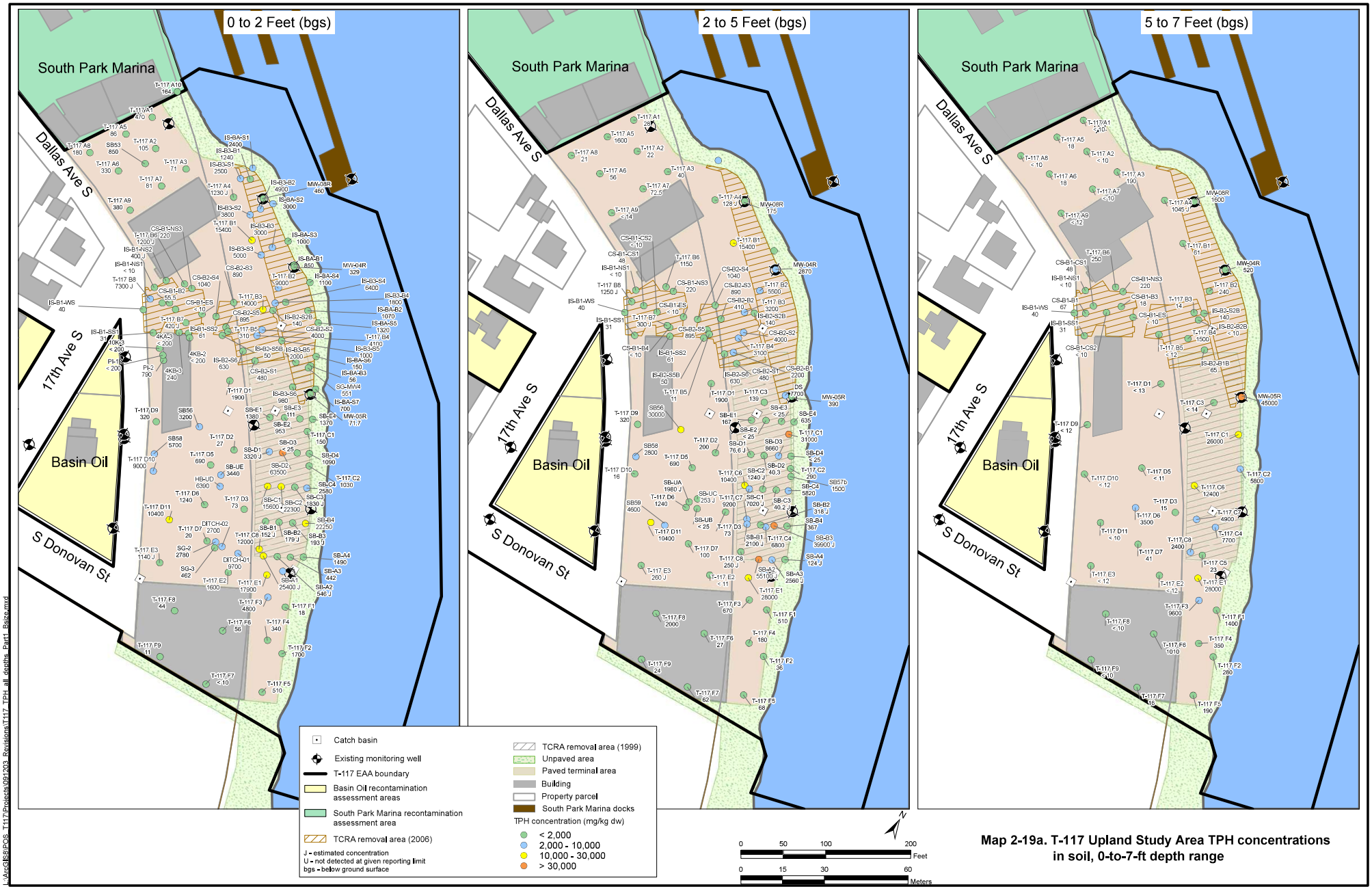
Map 2-13c. T-117 Upland Study Area total PCB concentrations in soil, >15-ft depth range

L:\Arc\EIB\PDS_T117\Projects\091203_Revisions\T117_PCB_all_depths_Part3_11x17.mxd



Map 2-14. T-117 Upland Study Area Subarea A total PCB concentrations in soil

L:\ArcGIS\MPOS_T117\Projects\091203_Revisions\T117_pcbs_XL_A1.mxd



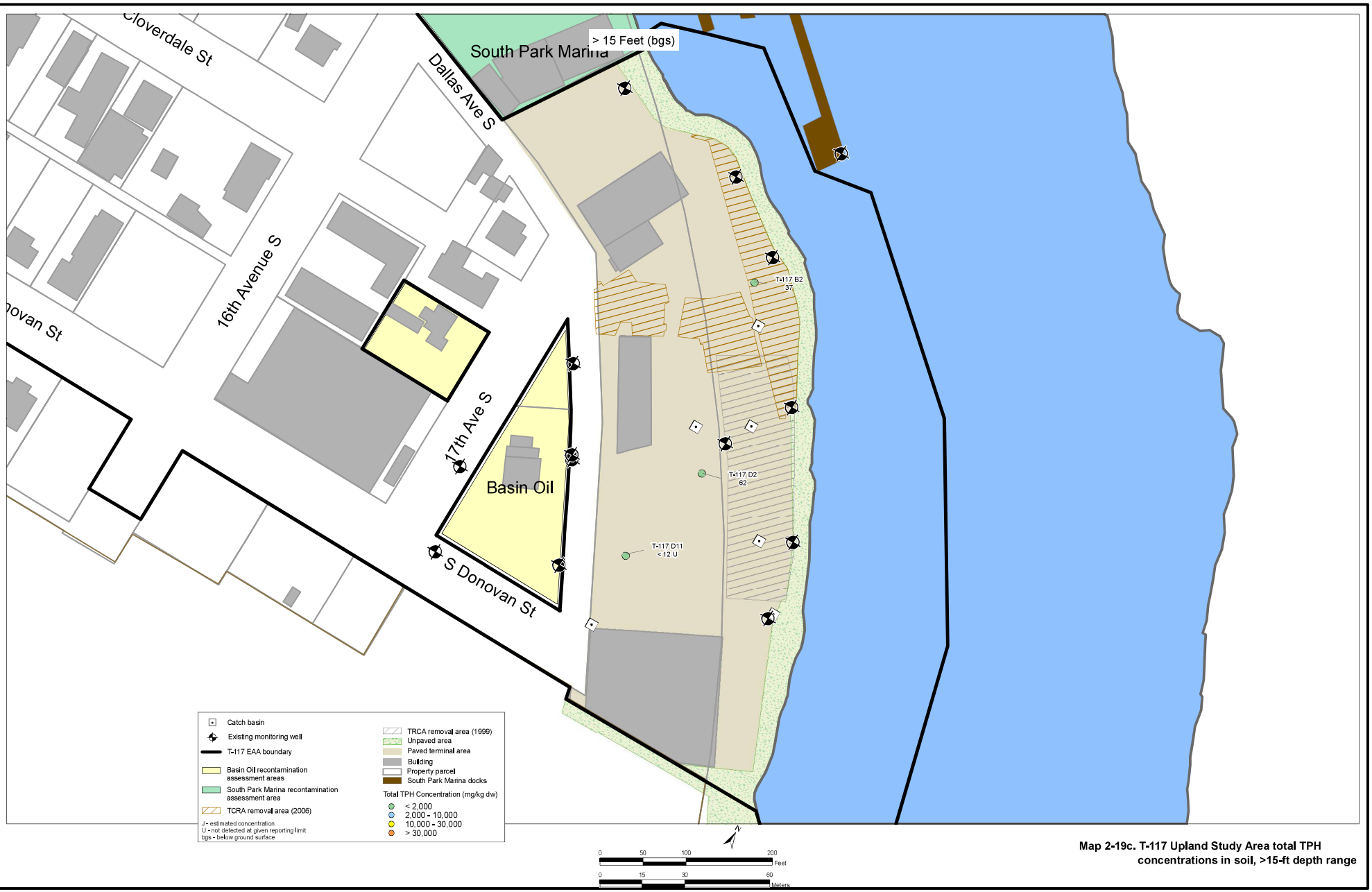
Map 2-19a. T-117 Upland Study Area TPH concentrations in soil, 0-to-7-ft depth range

L:\ArcGIS\MXDS_T117\Projects\091203_Revisions\T117_TPH_all_depths_Part1_Baize.mxd

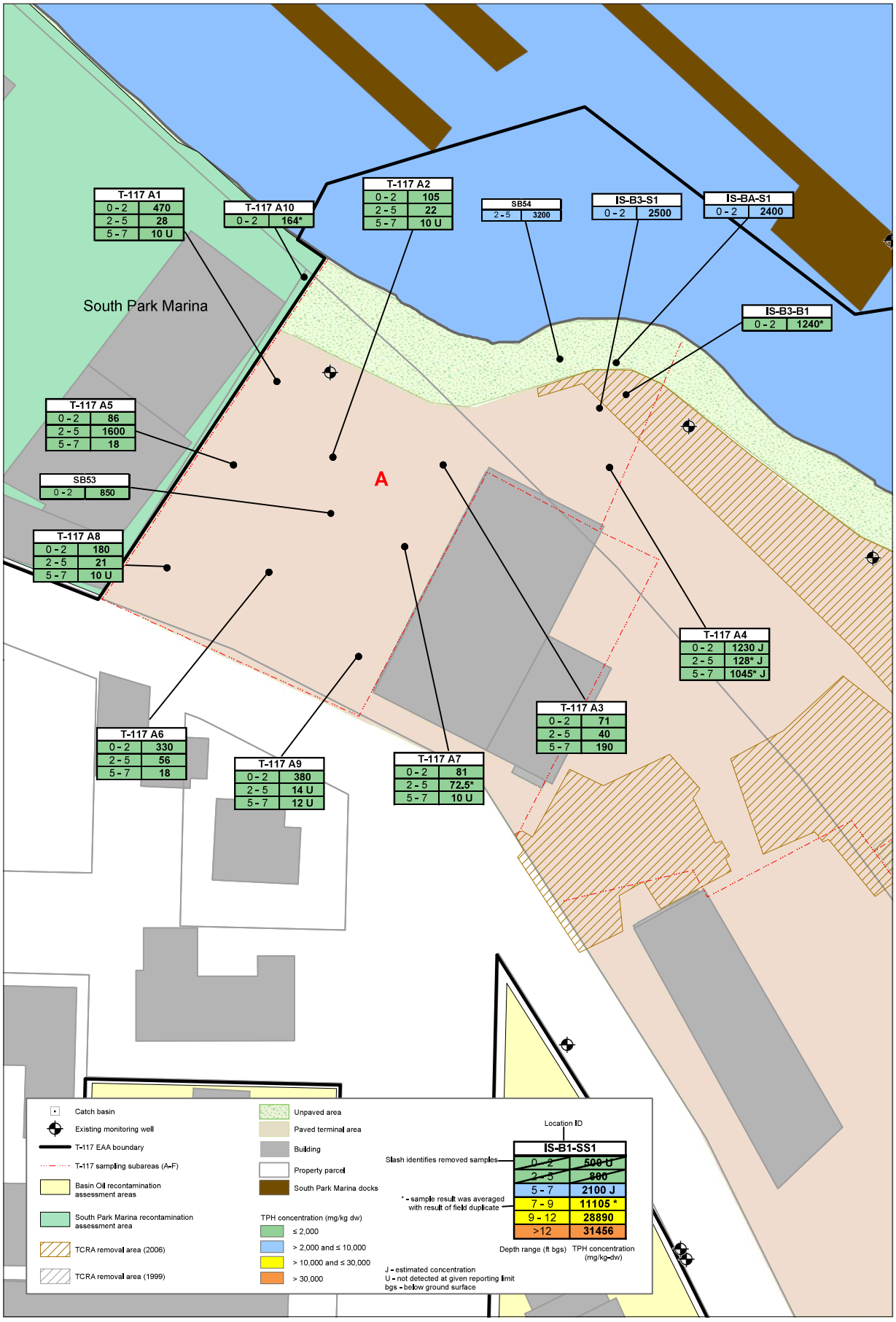


Map 2-19b. T-117 Upland Study Area TPH concentrations in soil, 7-to-15-ft depth range

I:\ArcGIS\BPOS_T117\Projects\091203_Revisions\T117_TPH_all_depths_Part2_Beiza.mxd

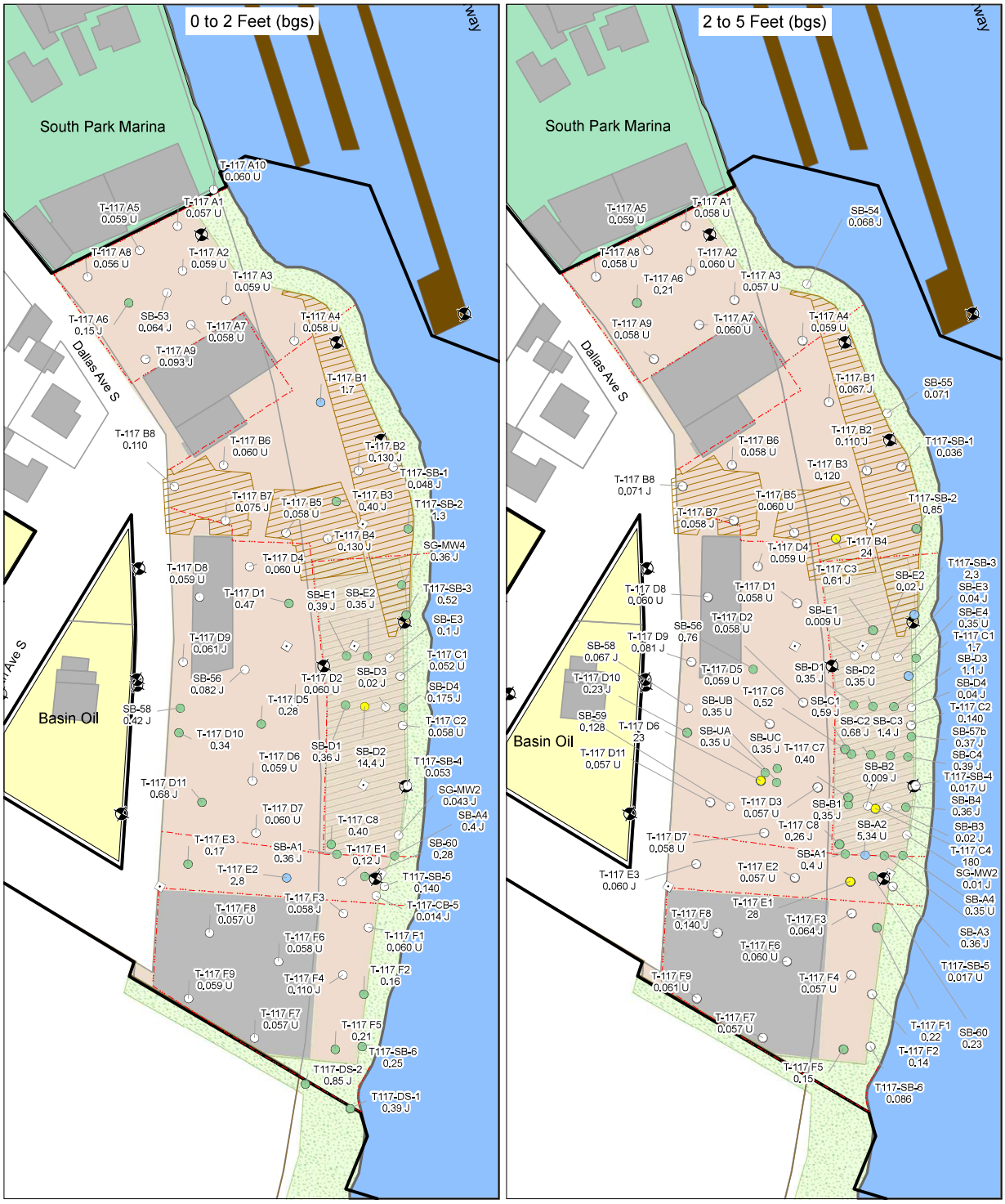


Map 2-19c. T-117 Upland Study Area total TPH concentrations in soil, >15-ft depth range



Map 2-20. T-117 Upland Study Area subarea A TPH concentrations in soil

L:\ArcGIS8\POS_T-117\Projects\091203_Revisions\T117_TPH_XL_A1.mxd



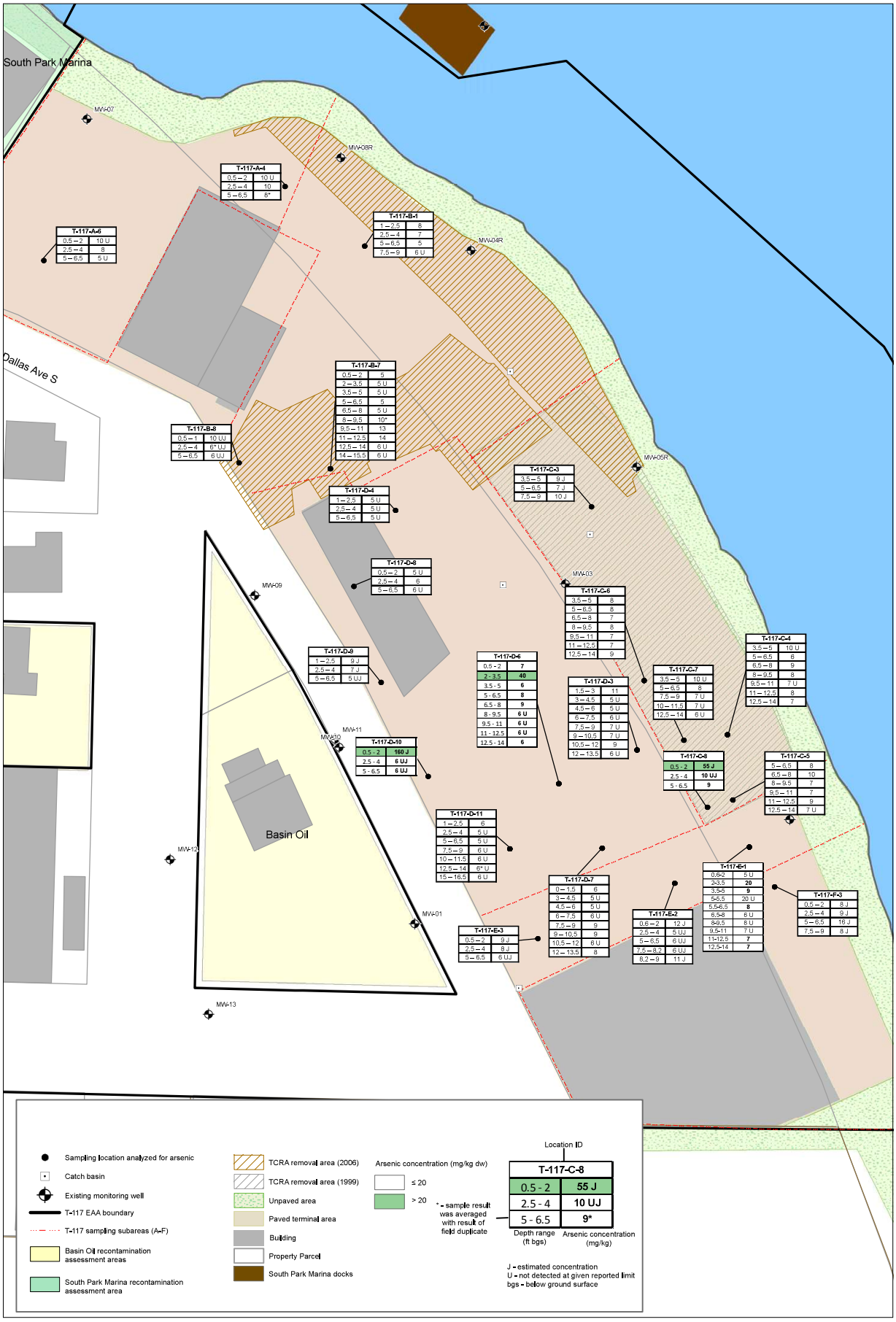
Map 2-25. T-117 Upland Study Area total cPAH in soil, 0-to-4-ft depth range

L:\ArcGIS\MXDs_T117\Projects\091203_Revisions\T117_cPAH_all_depths_Part1_Blaze.mxd



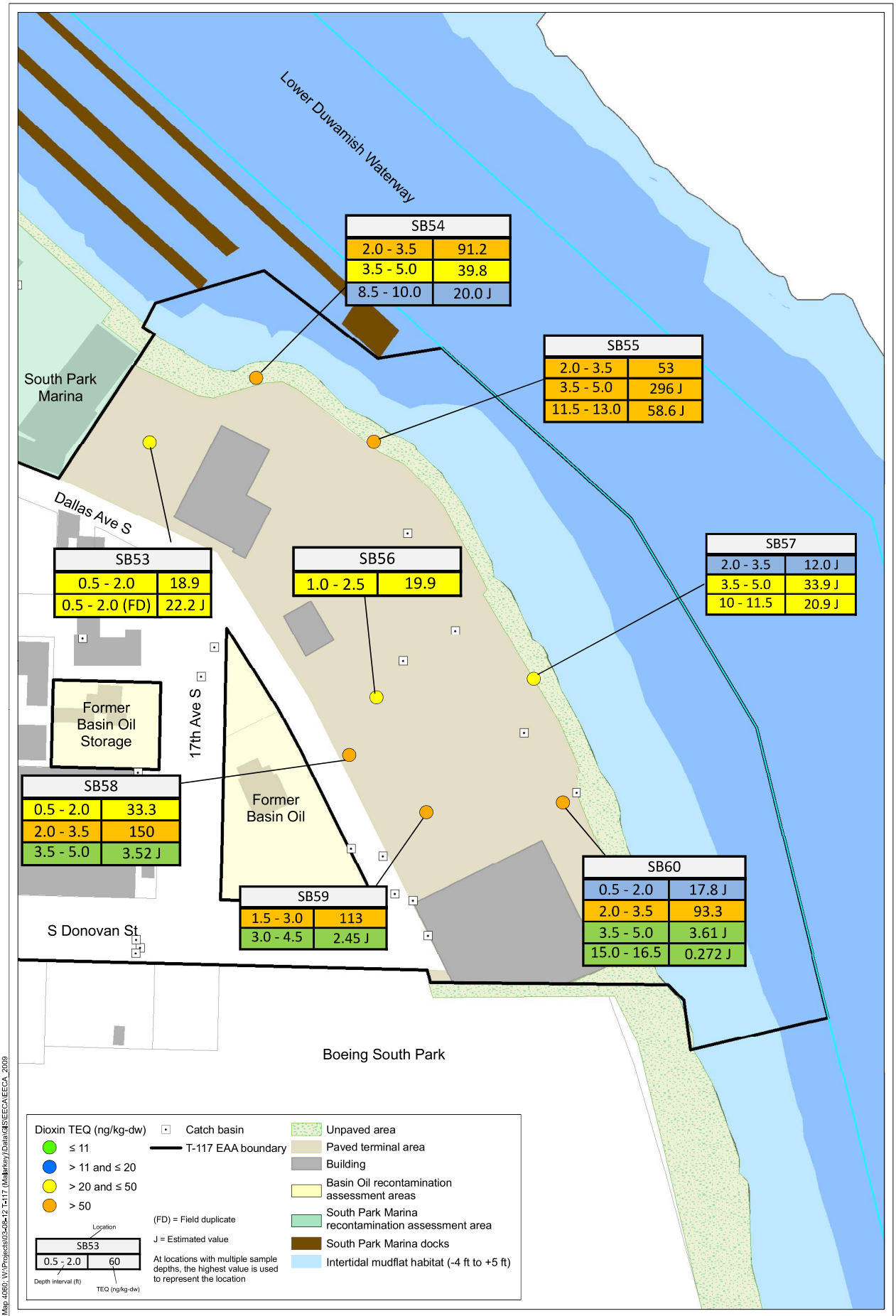
Map 2-26. T-117 Upland Study Area total cPAH in soil, 5-to->7-ft depth range

L:\ArcGIS8\POS_T117\Projects\031203_Revisions\T117_cPAH_all_depths_Part2_Bsize.mxd



Map 2-27. T-117 Upland Study Area arsenic concentrations in soil

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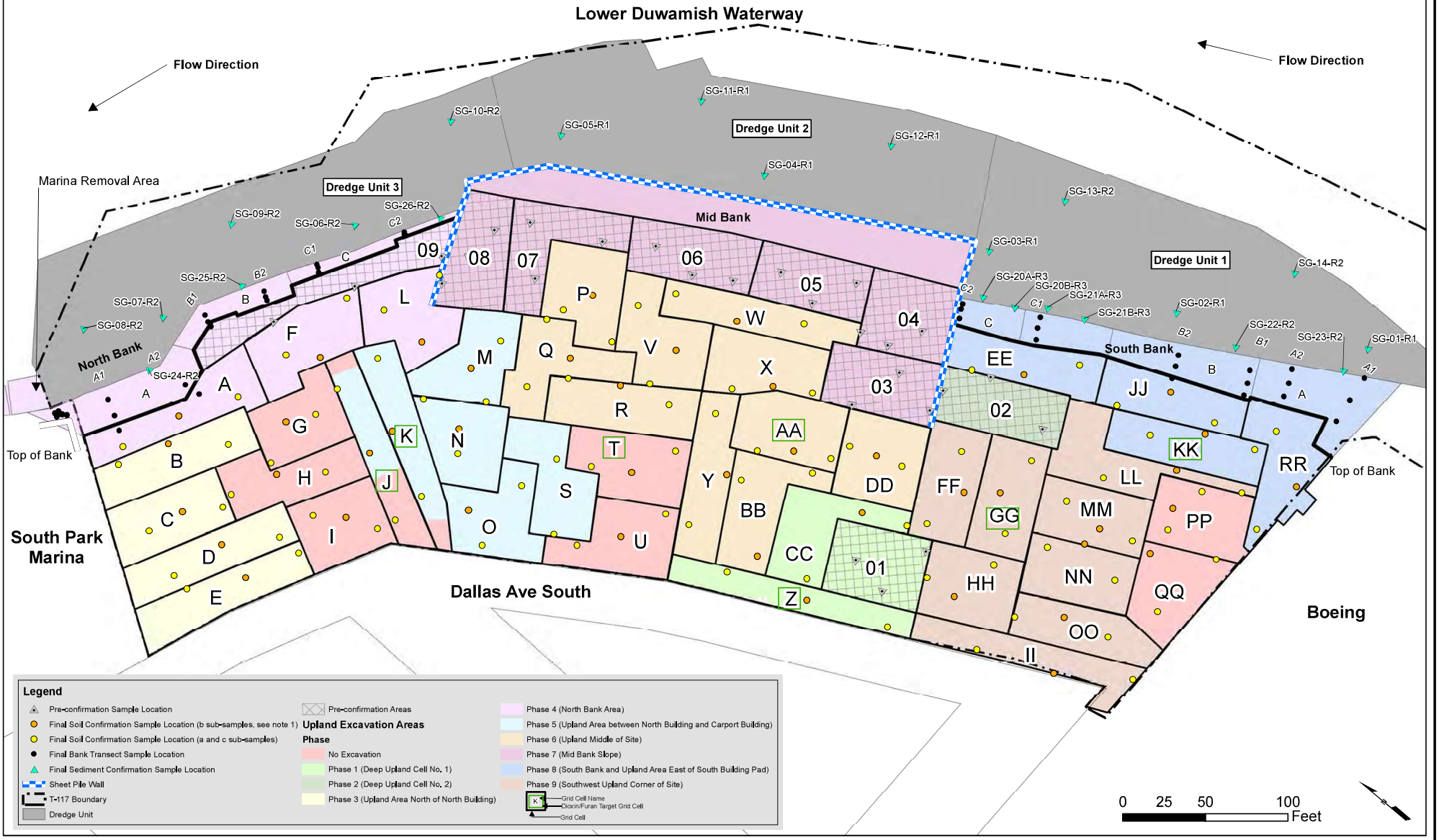


Map 2-28. T-117 Upland Study Area dioxin/furan TEQs in soil

Prepared by MTY 01/19/2010; Map 4060; W:\Projects\03-026-12 T-117 (MaBarkley)\Data\GIS\EECA\EECA_2009

APPENDIX A.18

Post-Removal Analytical Results - T-117 Upland Area



1. Soil confirmation sample locations reported in the project database will be given the coordinate of the b sub-sample location, in accordance with the QAPP.
2. Additional dredging of the bank transitions area (i.e. elevation 0 to 2 ft MLLW) was performed in the area of sediment samples SG-20A and SG-20B after samples were obtained. However, additional sediment samples were not obtained prior to backfilling.

AECOM

T-117 CLEANUP REMOVAL ACTION CONSTRUCTION REPORT			FINAL SOIL, BANK, AND SEDIMENT CONFIRMATION SAMPLING LOCATIONS	
DATE: 3/25/2016	DRWN:lmh/sea	Revision: 0	Project No: 60288925	Figure 6

Path: P:\ENV\PROJECTS\WPort of Seattle\T-117 Cleanup Oversight\900-CAD-GIS\AECOM\MXD\RACR\Figure 6 Confirmation Sampling Locations\V10.mxd

Table 5-1 Upland Confirmation Sampling Results

	Dataset statistics					
	Total PCBs (mg/kg)	**cPAHs (mg/kg)**	**Diesel (mg/kg)**	**TPH (mg/kg)**	**Silver (mg/kg)**	**Dioxin/furan TEQ (ng/kg)**
T-117 RvAL:	**0.65**	**0.14**	**200**	**2000**	**2**	**11**
Calculated UCL:	0.32	0.022	38	230	-	1.70
UCL statistic:	95% KM (Chebyshev) UCL	95% KM (Chebyshev) UCL	95% KM (BCA) UCL	95% KM (Chebyshev) UCL	*not calculated**	95% H-UCL
Rule 1 - UCL Exceeds RvAL?:	No	No	No	No	na	No
# of samples in confirmation dataset:	53	53	53	53	19	16
# of allowable RvAL exceedances (<10% of dataset):	5	5	5	5	1	1
Final # of RvAL exceedances:	4	0	1	0	0	0
% RvAL exceedances:	8%	0%	2%	0%	0%	0%
Rule 2 - RvAL exceedance in ≥ 10% of projected samples?:	No	No	No	No	No	No

** Calculation of the 95% UCL requires at least six (6) detected concentrations*

								Confirmation soil sample results																				
								Total PCBs (mg/kg)				**cPAHs (mg/kg)**				**Diesel (mg/kg)**				**TPH (mg/kg)**				**Silver (mg/kg)**				**Dioxin/furan TEQ (ng/kg)**				**Rule 3 -**
Excav. Phase	**Grid cell**	**Sample Round**	**Sample ID**	**Design elev (ft MLLW)**	**Sample elev (ft MLLW)**	**Sample Date**	**Initial Report Date to Port**	Conc	Qual	>RvAL	EF	Conc	Qual	>RvAL	EF	Conc	Qual	>RvAL	EF	Conc	Qual	>RvAL	EF	Conc	Qual	>RvAL	EF	Conc	Qual	>RvAL	EF	**Exceeds 2x RvAL?**
pre-conf	01	1	SB-01-8,3,-1	8,3,-1	8,3,-1	6/29/2012	10/8/2012	0.031		No	0.048	0.0033	J	No	0.024	6.1		No	0.031	29	JN	No	0.015	0.3	U	No	0.15	0.285	J	No	0.026	No
pre-conf	02	1	SB-02-8,1	8,1	8,1	6/30/2012	10/8/2012	0.025		No	0.038	0.0033	J	No	0.024	200		No	1.0	250	JN	No	0.13	0.3	U	No	0.15	0.626	J	No	0.057	No
pre-conf	03	2	SB-03-4	6	4	6/30/2012	10/8/2012	0.028		No	0.043	0.0035	J	No	0.025	9.1		No	0.046	44	JN	No	0.022	0.3	U	No	0.15	0.277	J	No	0.025	No
pre-conf	04	3	SB-04-4	8	4	6/30/2012	10/8/2012	0.23		No	0.35	0.0044		No	0.031	51		No	0.26	180		No	0.090	0.3	U	No	0.15	0.482	J	No	0.044	No
pre-conf	05	1	SB-05-3	3	3	7/2/2012	10/8/2012	0.0042		No	0.0065	0.0033	J	No	0.024	5.4		No	0.027	15	JN	No	0.0075	0.3	U	No	0.15	2.70	J	No	0.25	No
pre-conf	06	1	SB-06-6	6	6	6/30/2012	10/8/2012	0.26		No	0.40	0.015	J	No	0.11	9.8		No	0.049	57		No	0.029	0.3	U	No	0.15	0.978	J	No	0.089	No
pre-conf	07	2	SB-07-6,5	8,7	6,5	6/29/2012	10/8/2012	0.24		No	0.37	0.0042	J	No	0.030	25	U	No	0.13	110		No	0.055	0.3	U	No	0.15	1.63	J	No	0.15	No
pre-conf	08	2	SB-08-2	3	2	6/29/2012	10/8/2012	0.089		No	0.14	0.037		No	0.26	110		No	0.55	980		No	0.49	0.3	U	No	0.15	0.934	J	No	0.085	No
pre-conf	09	2	SB-09-8,5,3	9,6,4	8,5,3	6/29/2012	10/8/2012	0.074		No	0.11	0.072		No	0.51	210		Yes	1.1	1200		No	0.60	0.5		No	0.25	5.03	J	No	0.46	No
4	A	1	SS-A-R1-16	17	16	9/30/2013	10/2/2013	0.51		No	0.78	0.015	U	No	0.11	5.0	U	No	0.025	30		No	0.015	-				-				No
3	B	3	SS-B-R3-16	18	16	9/6/2013	9/10/2013	0.0040	U	No	0.0062	0.0038	U	No	0.027	5.0	U	No	0.025	10	U	No	0.0050	-				-				No
3	C	1	SS-C-R1-1618	16,18	16,18	8/8/2013	8/12/2013	0.061		No	0.094	0.0089		No	0.064	5.0	U	No	0.025	40		No	0.020	-				-				No
3	D	2	SS-D-R2-1618	17,19	16,18	8/16/2013	8/19/2013	0.0040	U	No	0.0062	0.0038	U	No	0.027	5.0	U	No	0.025	10	U	No	0.0050	-				-				No
3	E	1	SS-E-R1-19	19	19	8/8/2013	8/12/2013	0.0040	U	No	0.0062	0.0038	U	No	0.027	5.0	U	No	0.025	10	U	No	0.0050	-				-				No
4	F	2	SS-F-R2-050811	12,17	5, 8, 11	11/19/2013	11/21/2013	0.043		No	0.066	0.0016		No	0.011	5.0	U	No	0.025	22		No	0.011	0.20	U	No	0.10	-				No
5	G	1	SS-G-R1-22	22	22	9/11/2013	9/13/2013	0.29		No	0.45	0.0038		No	0.027	7.9	J	No	0.040	130	J	No	0.065	0.20	U	No	0.10	-				No
5	H	2	SS-H-R2-21	22	21	9/25/2013	9/27/2013	0.14		No	0.22	0.0082		No	0.059	5.0	U	No	0.025	16		No	0.0080	0.20	U	No	0.10	-				No
5	I	2	SS-I-R2-22	23	22	9/25/2013	9/27/2013	0.032		No	0.049	0.024		No	0.17	5.0	U	No	0.025	23		No	0.012	0.20	U	No	0.10	-				No
5	J	1	SS-J-R1-091821.5	ne	9,18,21.5	11/11/2013	11/14/2013	0.020	U	No	0.031	0.0071		No	0.051	5.0	U	No	0.025	10	U	No	0.0050	0.20	U	No	0.10	0.745	J	No	0.068	No
5	K	1	SS-K-R1-101319	17,19	10,13,19	11/11/2013	11/14/2013	0.020	U	No	0.031	0.0070		No	0.050	5.0	U	No	0.025	10	U	No	0.0050	0.20	U	No	0.10	0.929	J	No	0.084	No
4	L	2	SS-L-R2-030608	9,12,14	3, 6, 8	11/21/2013	11/26/2013	0.020	U	No	0.031	0.0015	U	No	0.011	5.0	U	No	0.025	24		No	0.012	0.20	U	No	0.10	-				No
5	M	1	SS-M-R1-13	13	13	11/11/2013	11/14/2013	0.020	U	No	0.031	0.0049		No	0.035	8.7	J	No	0.044	24	J	No	0.012	0.20	U	No	0.10	-				No
5	N	1	SS-N-R1-1013	10,13	10,13	11/11/2013	11/14/2013	0.020	U	No	0.031	0.0015	U	No	0.011	5.0	U	No	0.025	10	U	No	0.0050	0.52		No	0.26	-				No
5	O	1	SS-O-R1-091214	9,12,14	9,12,14	11/11/2013	11/14/2013	0.024		No	0.037	0.0015	U	No	0.011	5.0	U	No	0.025	10	U	No	0.0050	0.20	U	No	0.10	-				No
6A	P	1	SS-P-R1-0910	9,10	9,10	12/19/2013	12/20/2013	0.57		No	0.88	0.0048		No	0.034	5.0	U	No	0.025	13		No	0.0065	-				-				No
6A	Q	1	SS-Q-R1-0911	9,11	9,11	12/19/2013	12/20/2013	0.020	U	No	0.031	0.0015	U	No	0.011	5.0	U	No	0.025	10	U	No	0.0050	-				-				No
6B	R	2	SS-R-R2-16	17	16	1/30/2014	1/31/2014	0.033		No	0.051	0.0015	U	No	0.011	5.0	U	No	0.025	10	U	No	0.0050	-				-				No
5	S	2	SS-S-R2-11	12	11	11/14/2013	11/15/2013	0.020	U	No	0.031	0.0015	U	No	0.011	5.0	U	No	0.025	10	U	No	0.0050	-				-				No
5	T	1	SS-T-R1-121718	ne	12,17,18	11/11/2013	11/14/2013	0.11		No	0.17	0.013		No	0.093	34	J	No	0.17	370	J	No	0.19	-				0.702	J	No	0.064	No
5	U	1	SS-U-R1-171920	ne	17,19,20	11/11/2013	11/14/2013	0.020	U	No	0.031	0.0015	U	No	0.011	5.0	U	No	0.025	10	U	No	0.0050	-				-				No
6A	V	1	SS-V-R1-11	11	11	12/19/2013	12/20/2013	0.054		No	0.083	0.0029		No	0.021	14		No	0.070	50		No	0.025	-				-				No
6A	W	1	SS-W-R1-0911	9,11	9,11	12/19/2013	12/20/2013	0.063		No	0.097	0.0015	U	No	0.011	6.7		No	0.034	19		No	0.0095	-				-				No
6B	X	1	SS-X-R1-10	12	10	1/22/2014	1/25/2014	0.22		No	0.34	0.057		No	0.41	35	J	No	0.18	102	J	No	0.051	-				-				No

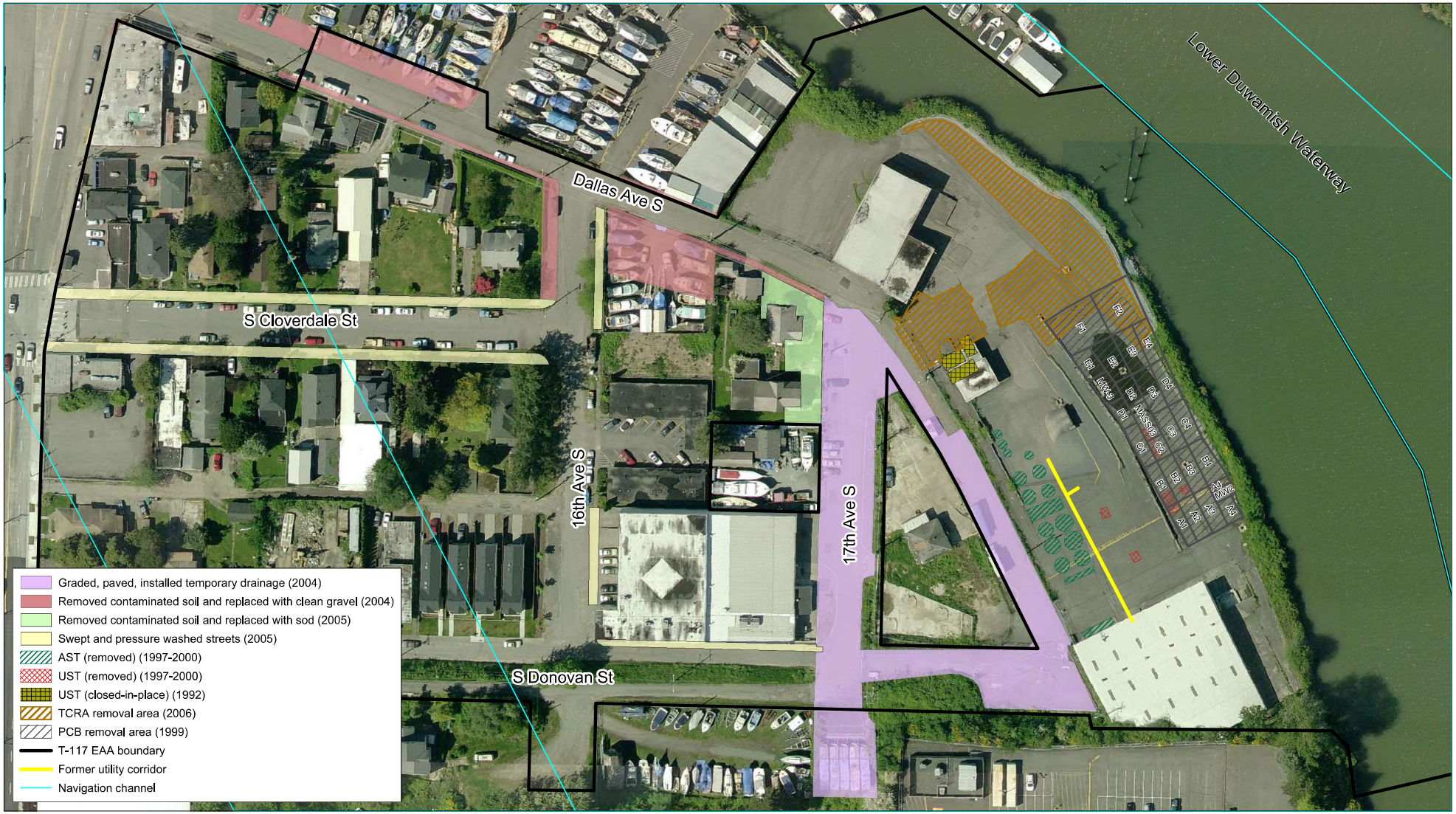
Table 5-1 Upland Confirmation Sampling Results

								Confirmation soil sample results																					
								Total PCBs (mg/kg)				cPAHs (mg/kg)				Diesel (mg/kg)				TPH (mg/kg)				Silver (mg/kg)				Dioxin/furan TEQ (ng/kg)				Rule 3 –
Excav. Phase	Grid cell	Sample Round	Sample ID	Design elev (ft MLLW)	Sample elev (ft MLLW)	Sample Date	Initial Report Date to Port	Conc	Qual	>RvAL	EF	Conc	Qual	>RvAL	EF	Conc	Qual	>RvAL	EF	Conc	Qual	>RvAL	EF	Conc	Qual	>RvAL	EF	Conc	Qual	>RvAL	EF	Exceeds 2x RvAL?
6B	Y	1	SS-Y-R1-0409	12,17	4,9	1/22/2014	1/25/2014	0.020	U	No	0.031	0.0015	U	No	0.011	17	J	No	0.085	45	J	No	0.023	-				-				No
1	Z	1	SS-Z-R1-171618	16,17,18	16,17,18	7/18/2013	7/25/2013	0.053	J	No	0.082	0.0038	U	No	0.027	5.0	U	No	0.025	10	U	No	0.0050	-				0.353		No	0.032	No
6B	AA	2	SS-AA-R2-0309	10,12	3,9	1/30/2014	1/31/2014	0.020	U	No	0.031	0.0019		No	0.014	160		No	0.80	310		No	0.16	-				0.596	J	No	0.054	No
6B	BB	1	SS-BB-R1-0607	10,12	6,7	1/22/2014	1/25/2014	0.020	U	No	0.031	0.0015	U	No	0.011	10	J	No	0.050	10	J	No	0.0050	-				-				No
1	CC	2	SS-CC-R2-0506.507	8	5,6.5,7	9/26/2013	9/30/2013	0.051		No	0.078	0.0015	U	No	0.011	5.0	U	No	0.025	10	U	No	0.0050	-				-				No
6B	DD	1	SS-DD-R1-15	15	15	1/22/2014	1/25/2014	0.020	U	No	0.031	0.0015	U	No	0.011	5.0	U	No	0.025	10	U	No	0.0050	-				-				No
8	EE	1	SS-EE-R1-10	10	10	11/26/2013	12/2/2013	0.89		Yes	1.4	0.030	J	No	0.21	15	J	No	0.075	81	J	No	0.041	-				-				No
9	FF	1	SS-FF-R1-15	15	15	3/14/2014	3/19/2014	0.11		No	0.17	0.0015	U	No	0.011	5.0	U	No	0.025	10	U	No	0.0050	-				-				No
9	GG	1	SS-GG-R1-0911	9,11	9,11	3/11/2014	3/12/2014	0.020	U	No	0.031	0.0015	U	No	0.011	5.0	U	No	0.025	32		No	0.016	-				0.301		No	0.027	No
9	HH	2	SS-HH-R2-12	13	12	3/20/2014	3/24/2014	0.025		No	0.038	0.019		No	0.14	6.0	J	No	0.030	120	J	No	0.060	-				-				No
9	II	1	SS-II-R1-20	20	20	3/17/2014	3/19/2014	1.0		Yes	1.5	0.095		No	0.68	150	J	No	0.75	360	J	No	0.18	-				-				No
8	JJ	1	SS-JJ-R1-10	10	10	11/26/2013	12/2/2013	0.86		Yes	1.3	0.0017		No	0.012	10	J	No	0.050	42	J	No	0.021	-				-				No
8	KK	1	SS-KK-R1-11	11	11	2/28/2014	3/4/2014	0.020	U	No	0.031	0.0047		No	0.034	5.0	U	No	0.025	40		No	0.020	-				0.614	J	No	0.056	No
9	LL	1	SS-LL-R1-0912	9,12	9,12	2/28/2014	3/4/2014	0.11		No	0.17	0.012		No	0.086	5.0	U	No	0.025	16		No	0.0080	-				-				No
9	MM	2	SS-MM-R2-11	12	11	3/20/2014	3/24/2014	0.029		No	0.045	0.0015		No	0.011	5.0	U	No	0.025	51	J	No	0.026	-				-				No
9	NN	1	SS-NN-R1-16	16	16	3/14/2014	3/19/2014	1.3		Yes	2.0	0.012		No	0.086	22	J	No	0.11	63	J	No	0.032	-				-				No
9	OO	1	SS-OO-R1-16	16	16	3/14/2014	3/19/2014	0.081		No	0.12	0.034		No	0.24	25	J	No	0.13	69	J	No	0.035	-				-				No
10	PP	2	SS-PP-R2-17	ne	17	3/20/2014	3/24/2014	0.020	U	No	0.031	0.011		No	0.079	5.0	U	No	0.025	19	J	No	0.0095	-				-				No
10	QQ	1	SS-QQ-R1-1819	ne	18,19	3/3/2014	3/4/2014	0.037		No	0.057	0.011		No	0.079	7.5	J	No	0.038	31	J	No	0.016	-				-				No
8	RR	2	SS-RR-R2-081519	9,16,20	8,15,19	12/4/2013	12/6/2013	0.020	U	No	0.031	0.0067		No	0.048	5.0	U	No	0.025	10	U	No	0.0050	-				-				No

Note:
All chemistry results expressed in mg/kg dw unless explicitly noted.
= RvAL exceedance

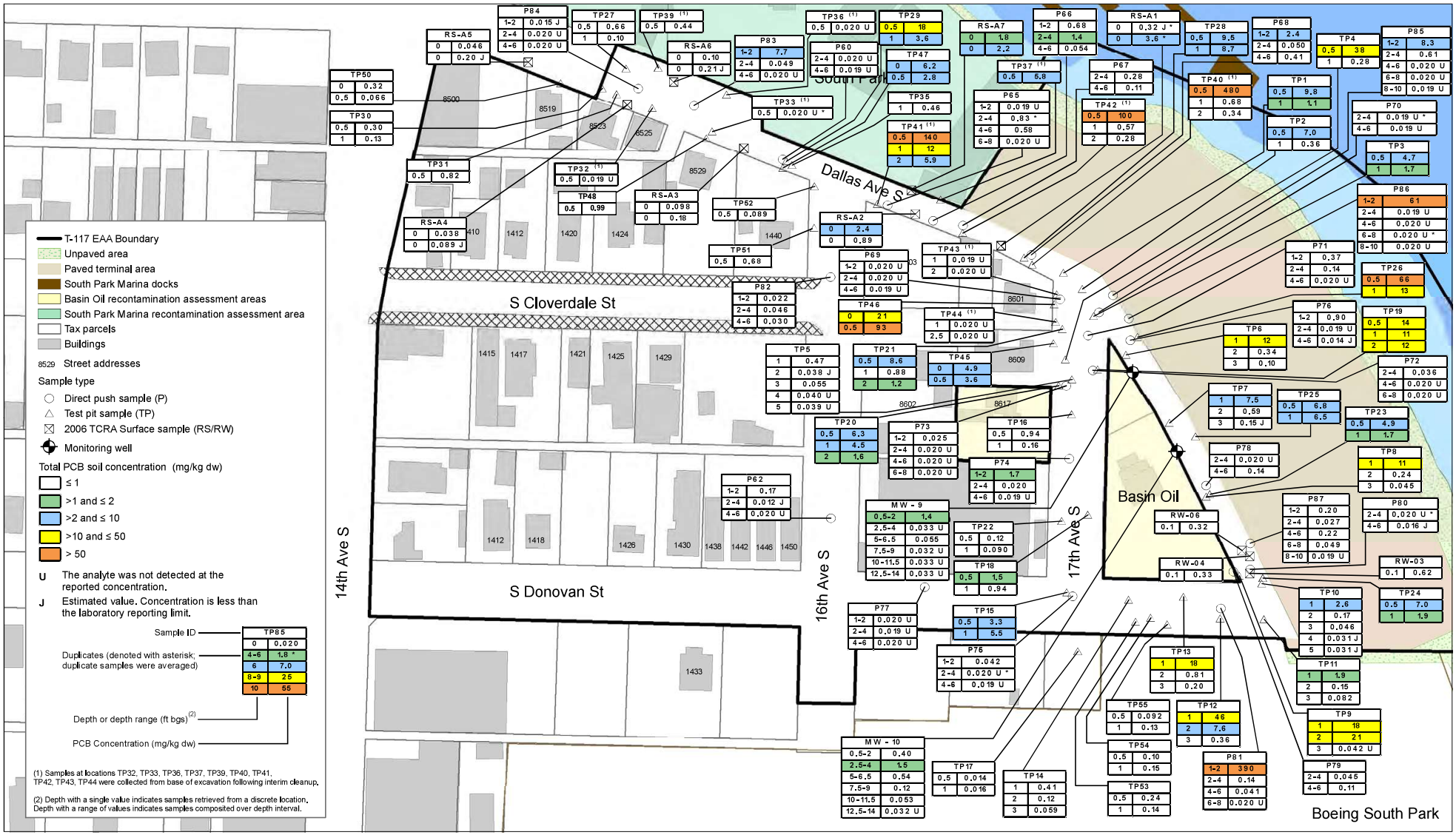
APPENDIX A.19

Pre-Removal Analytical Results - T-117 Streets and Yards Area



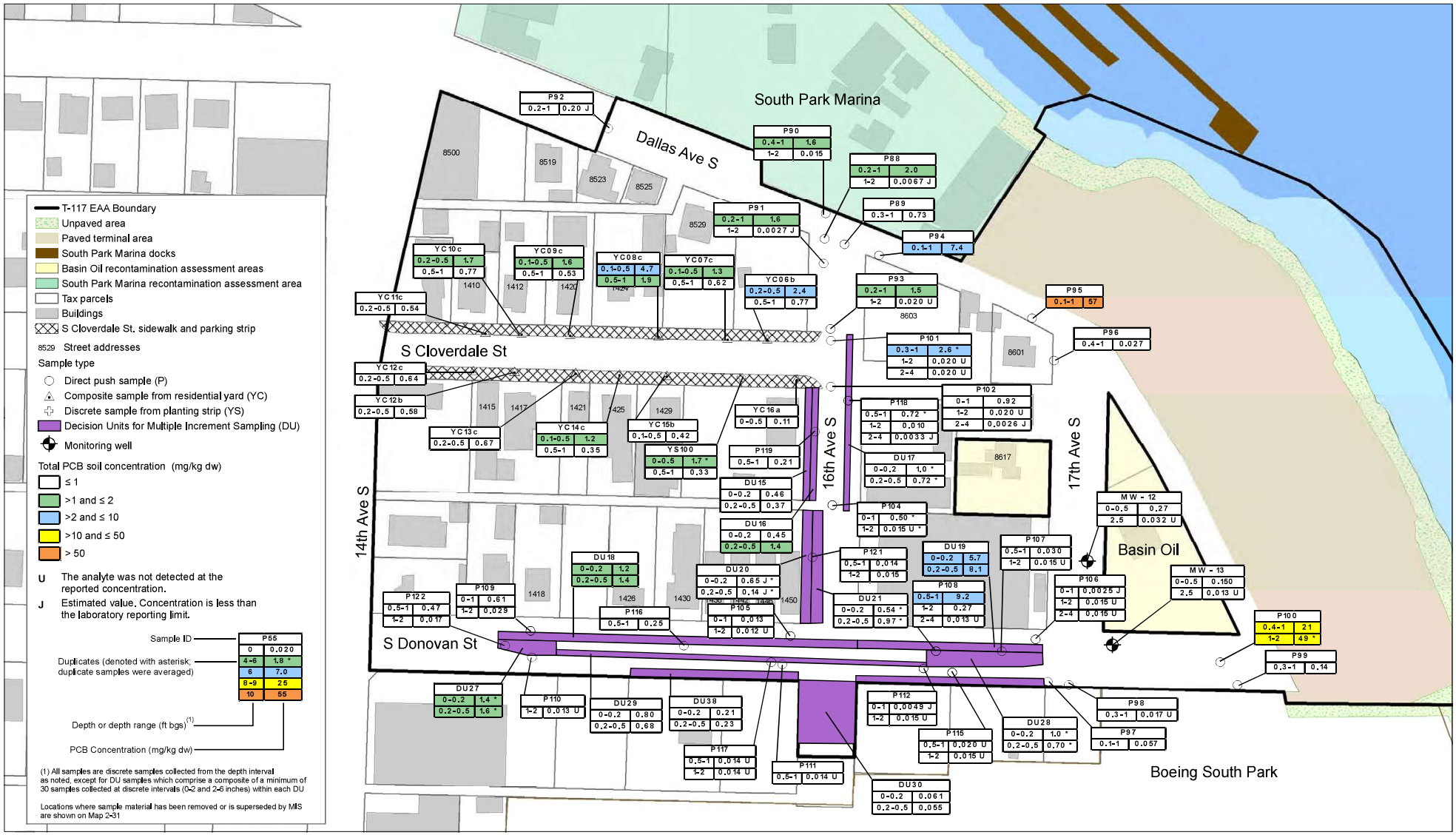
Map 2-6. Previous removal actions in the T-117 EAA

Prepared by CEH 06/02/10; Map_3105.W:\Projects\03-08-12 T-117 (Metalkey)\Data\GIS\2008 EECA



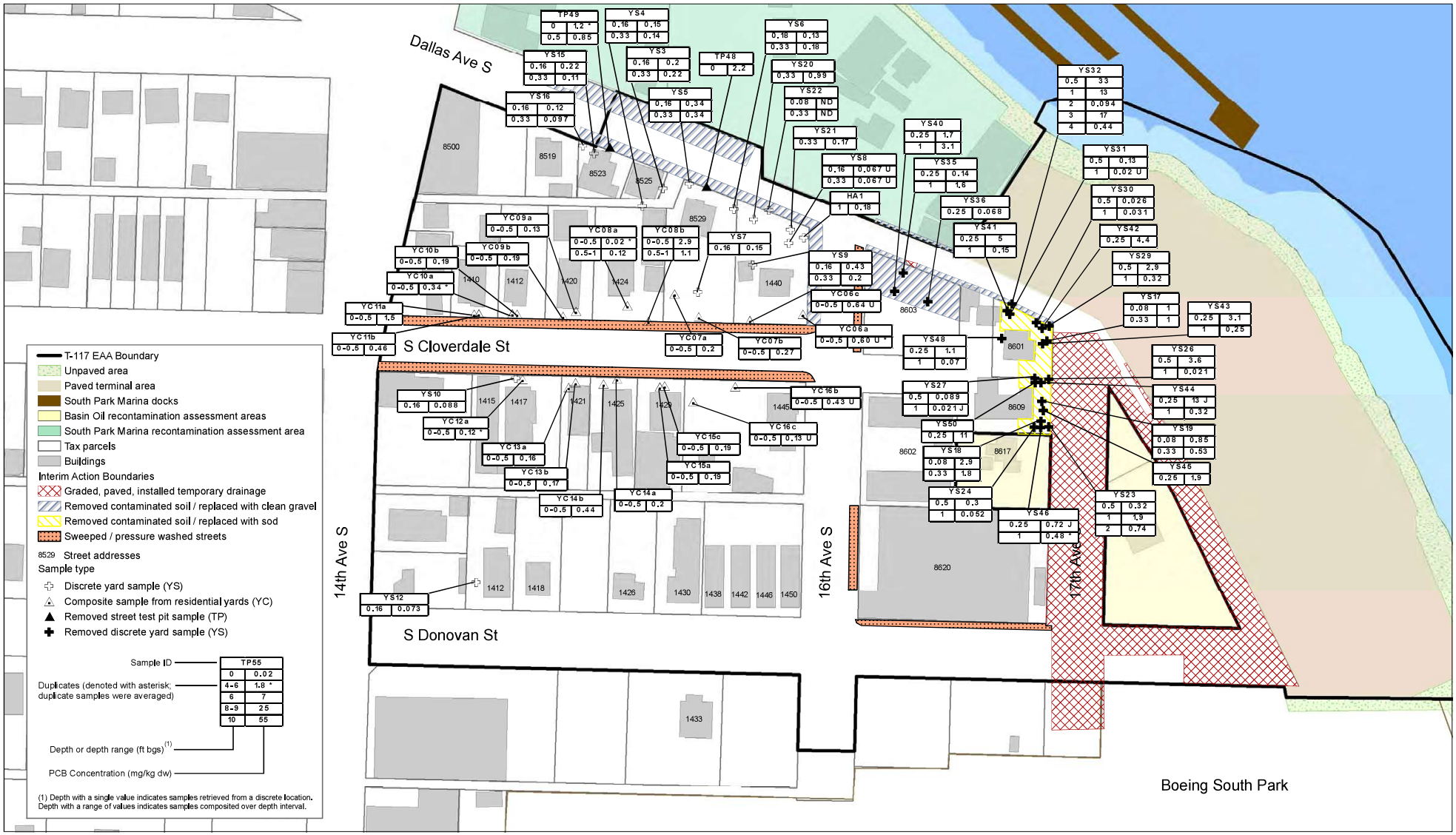
Map 2-29. Adjacent Streets total PCB concentrations in soil, 2004-2006

S:\mi\A0006_T117EAA\map_products\Report\v4\Revised_PostEPAComments\Map2_29_AdjSt_tPCBinSoil_04272010.mxd JP @ 05-05-2010



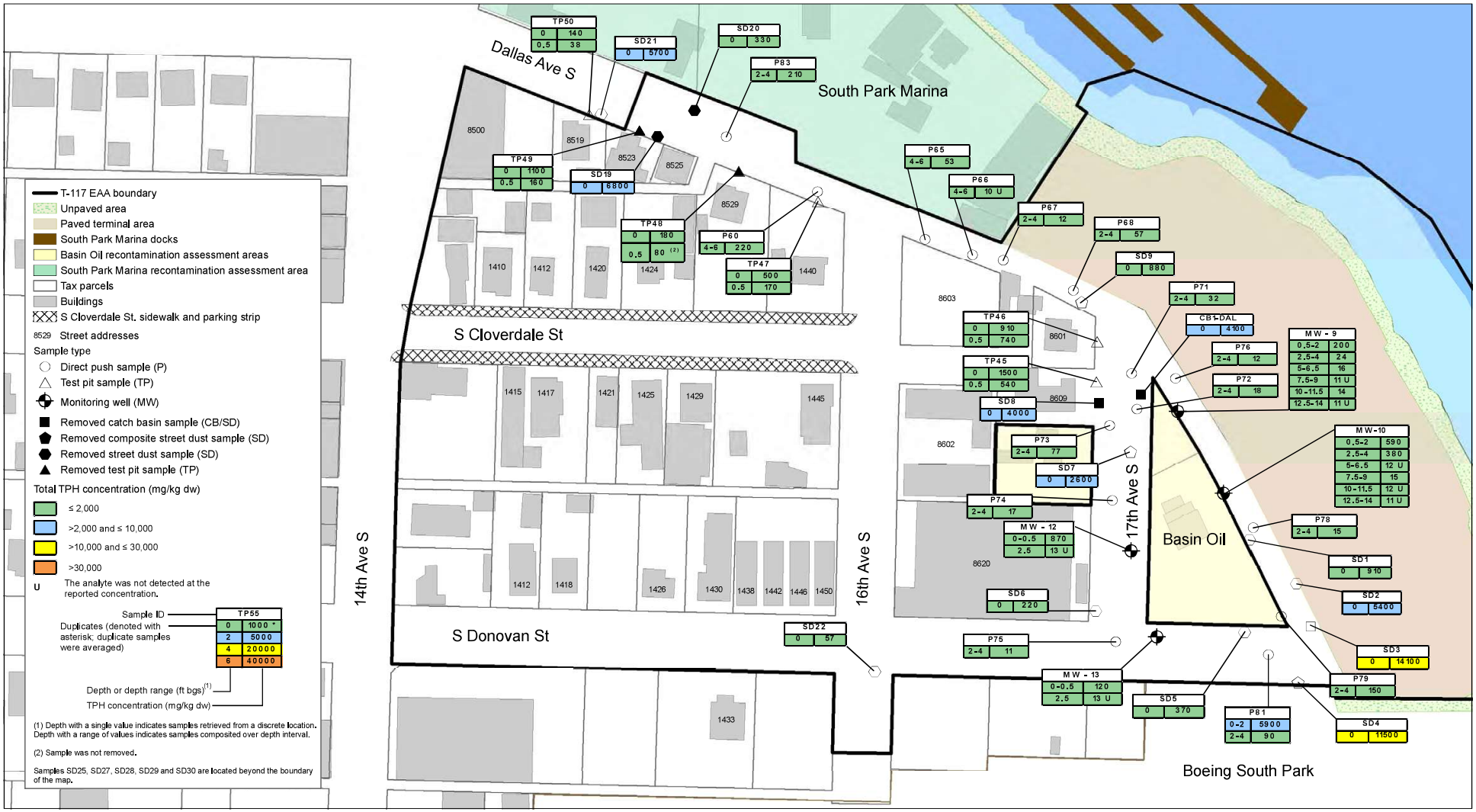
Map 2-30. Adjacent Streets total PCB concentrations in soil, 2008-2009

S:\mi\A0006_T117EAA\map_products\Report\v4\Revised_PostEPAComments\Map2_30_AdjSts_tPCBinSoil0809_04272010.mxd JP @ 05-07-2010



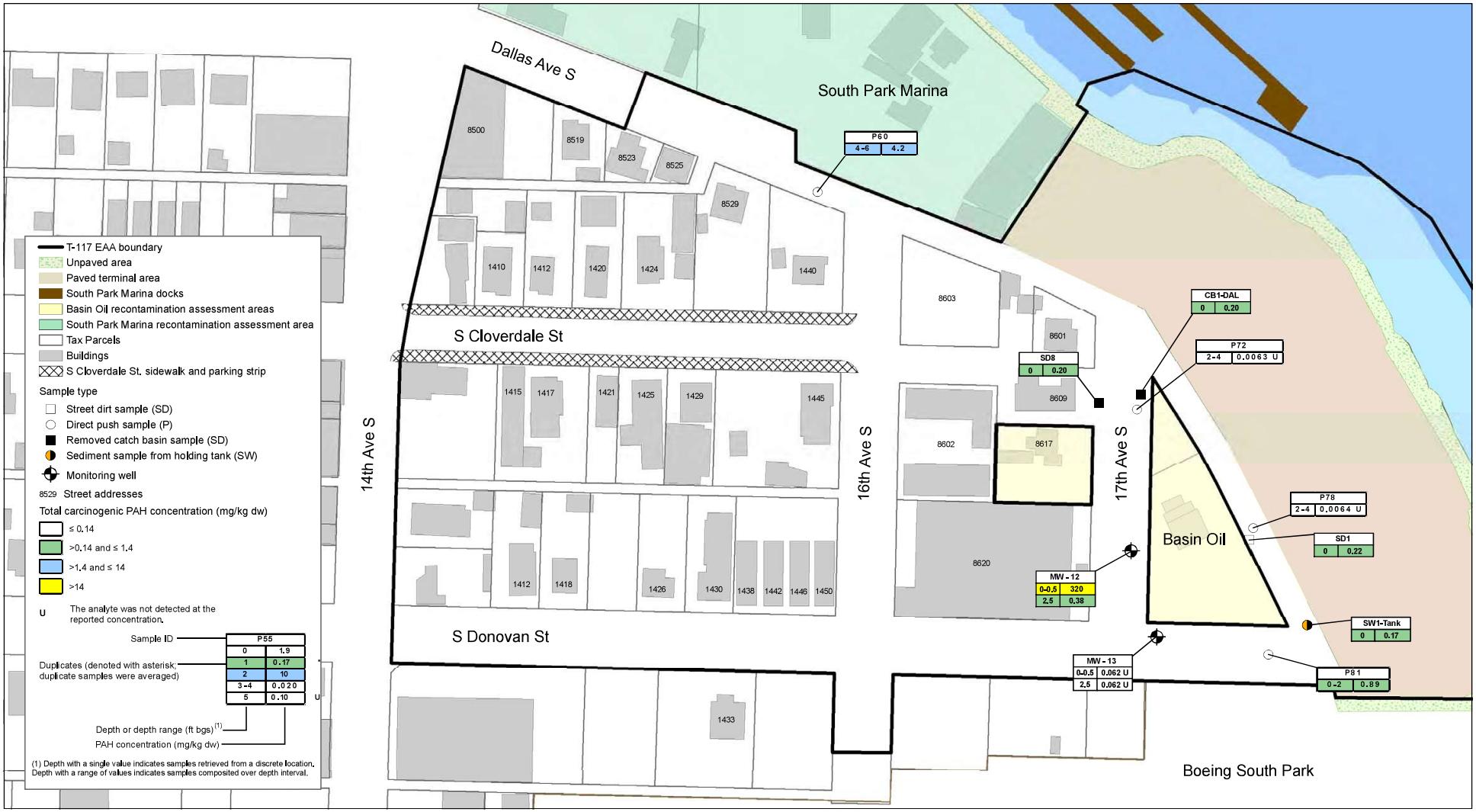
Map 2-31. Adjacent Streets and Residential Yards PCB concentrations, removed or superseded by MIS samples

S:\mi\A0006_T117EAA\map_products\Report\v4Revised_PostEPAComments\Map2_31_Adj$trResYds_PCBremsup_04272010 JP @ 05-07-2010



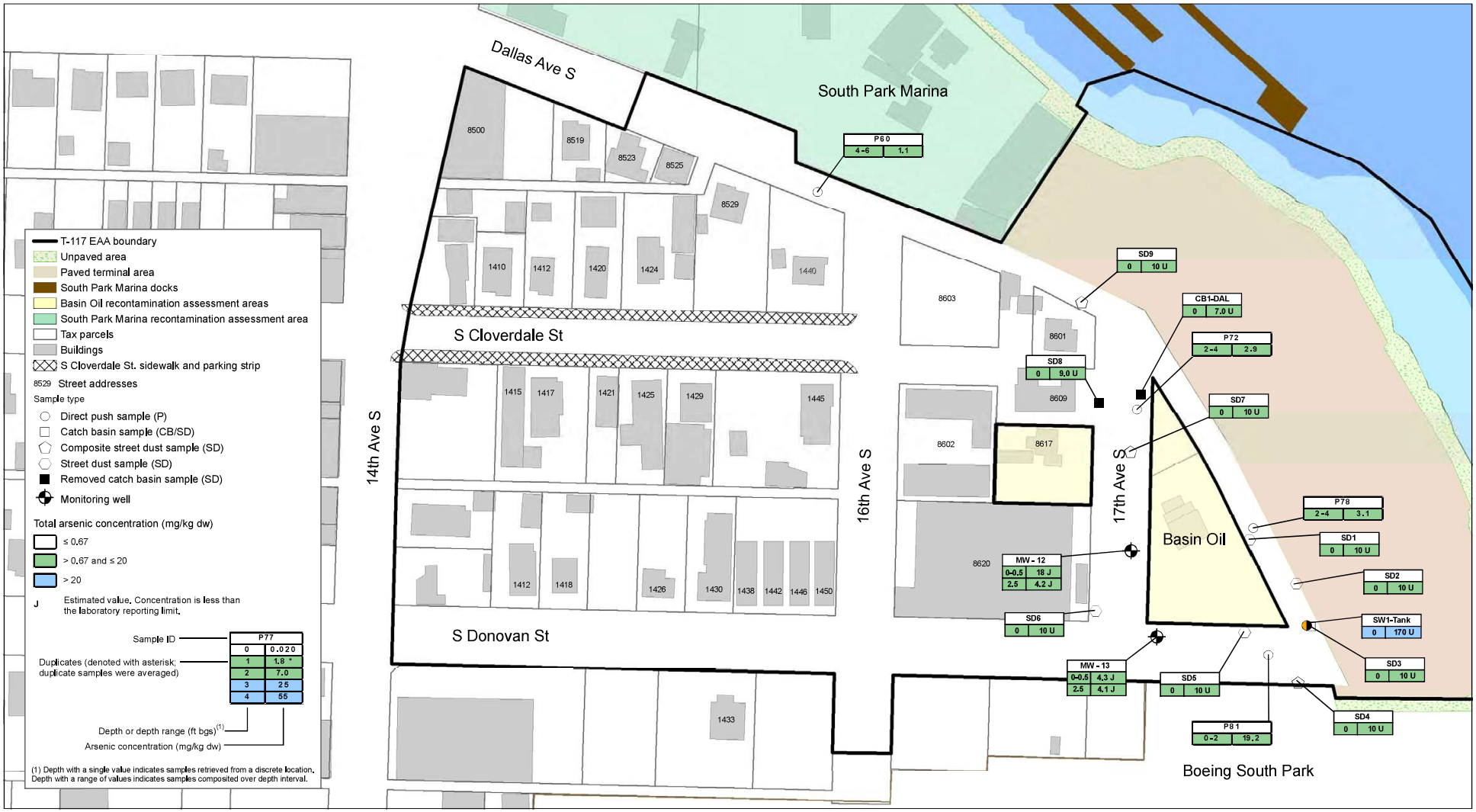
Map 2-32. Adjacent Streets TPH concentrations in soil

S:\mi\A0006_T117EAA\map_products\Report\wl\Revised_PostEPAComments\Map2_33_Adj St_ TPHinSoil_04272010.mxd JP @ 05-10-2010



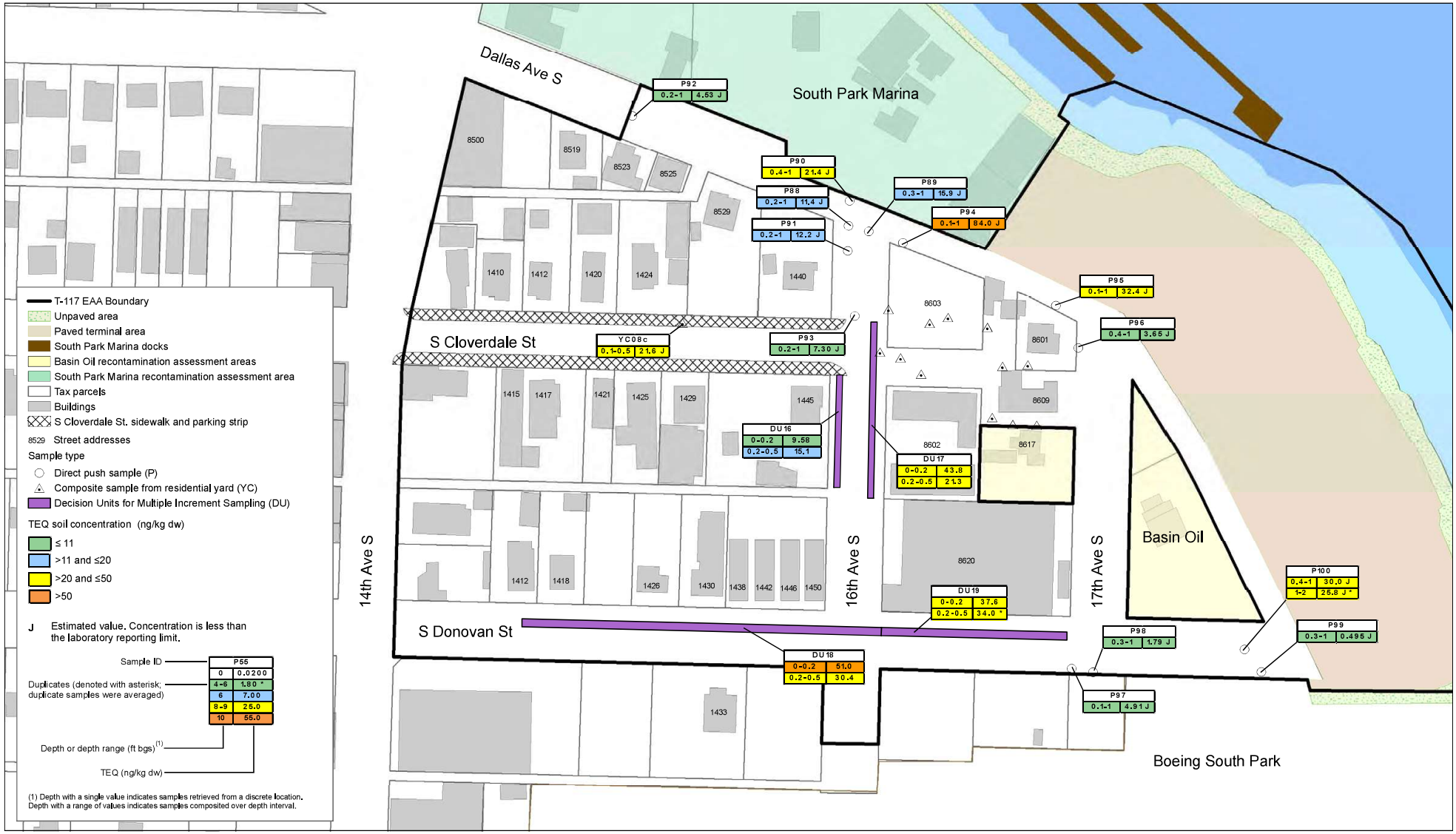
Map 2-33. Adjacent Streets cPAH TEQs in soil

S:\mi\A0006_T117EAA\map_products\Report\wl\Revised_PostEPACommentsMap2_33_AdjSt_cPAHinSoil_04272010.mxd JP @ 05-10-2010



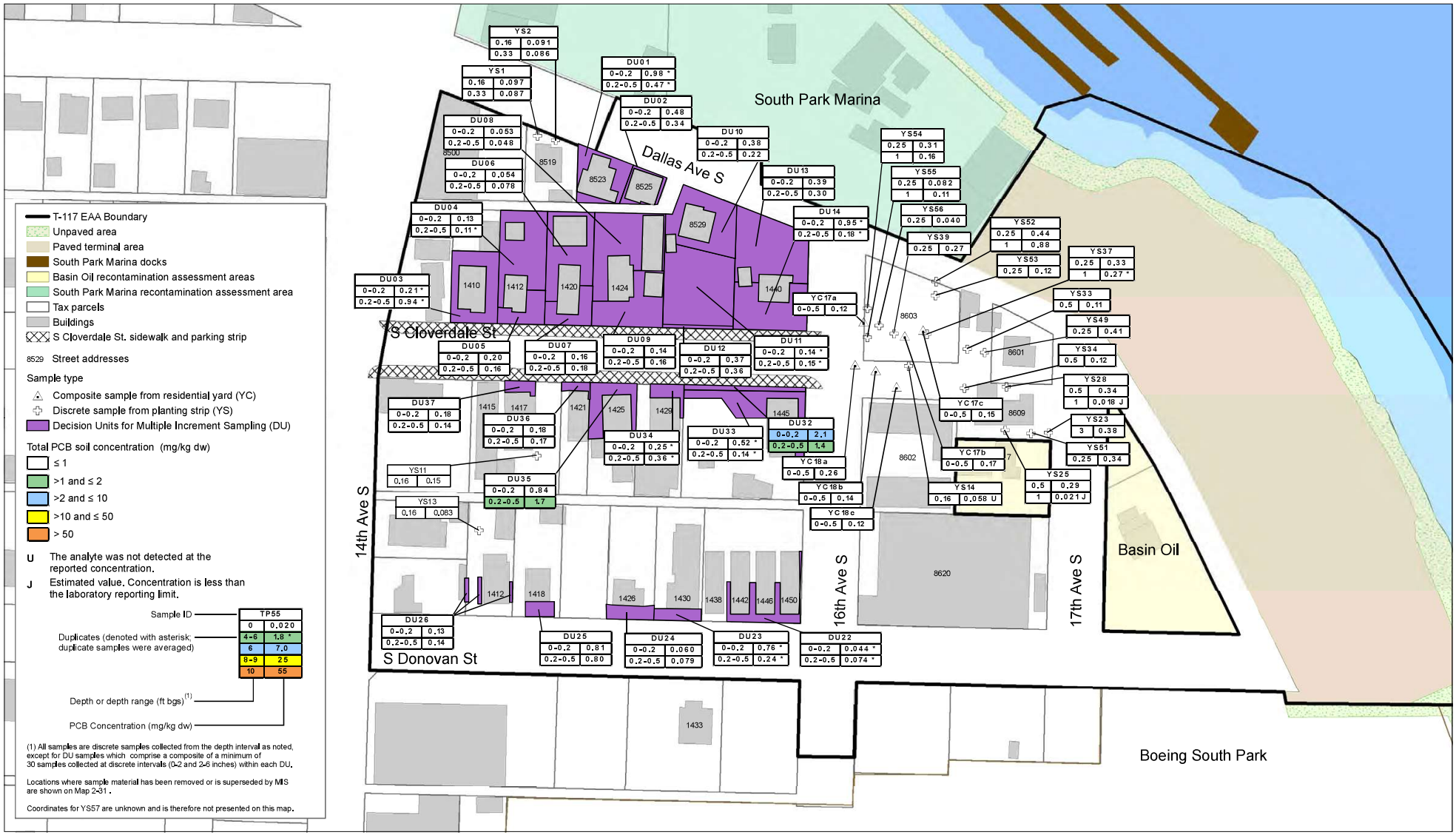
Map 2-34. Adjacent Streets arsenic concentrations in soil

S:\mi\A0006_T117EAA\map_products\Report\wl\Revised_PostEPAComments\Map2_34_AdjSts_ArsenicinSoil_04272010.mxd JP @ 05-17-2010



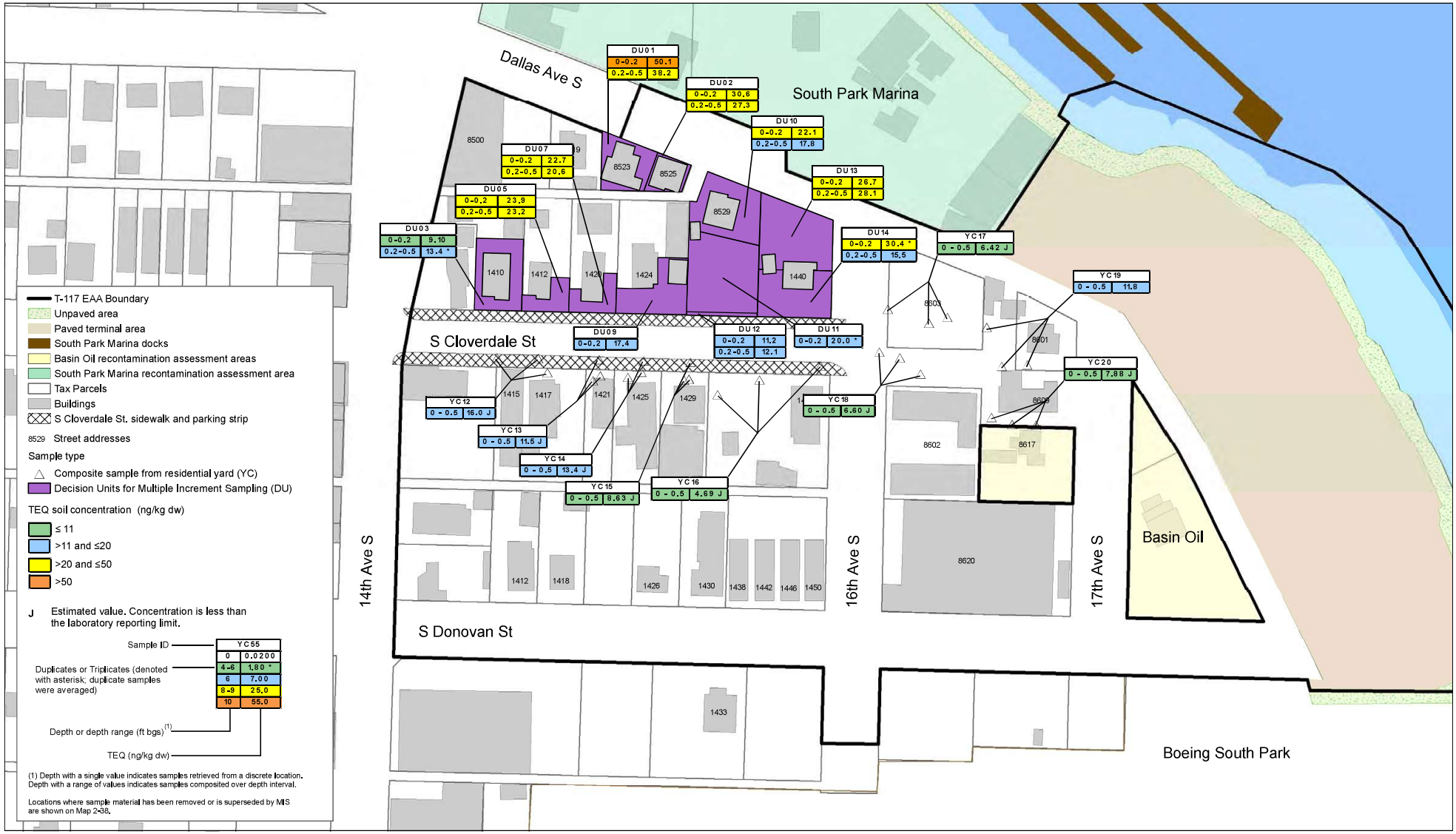
Map 2-35. Adjacent Streets dioxin/furan TEQs in soil

S:\mi\A0006_T117EAA\map_products\Report\v4\Revised_PostEPAComments\Map2_35_Adj\Str_DFTEQinSoil_04272010.mxd JP @ 05-07-2010



Map 2-36. Residential Yards total PCB concentrations in soil

S:\mi\A0006_T117EAA\map_products\Report\v4\Revised_PostEPAComments\Map2_36_ResYds_PCBinSoil_04272010.mxd JP @ 05-07-2010



Map 2-37. Residential Yards dioxin/ furan TEQs in soil

S:\mi\A0006_T117EAA\map_products\Report\v4\Revised_PostEPAComments\Map2_37_ResYds_DFTEQinSoil_04272010.mxd JP @ 05-07-2010



Map 7-3. Comparison of alternative 1 and 2 removal areas

Prepared by MTY 05/14/10, CEH 06/02/10 Map #4252; W:\Projects\03-08-12 T-117 (Malarkey)\Data\GIS\EECA\EECA_2010

APPENDIX A.20

Planned Excavation Extents and Depths - T-117 Residential Yards



S:\se\A0006 Lower-Duwamish Various\A0006 15H T117\Working MXDs\60pctDesign\Fig2 Excavation Yards 10292012.mxd 10/29/2012 2:27:45 PM

integral consulting inc.

Figure 1-2.
Soil Excavation Boundaries for Residential Yards
Lower Duwamish Superfund Site - Terminal 117 Early Action Area

Table 3-1. Excavation Depths, Elevations, and Quantities

Affected Property, Ownership, and Decision Unit	Minimum Removal Depth (ft bgs)[a]	Lowest DU Elevation (ft NAVD88)	Target Removal Elevation (ft NAVD88)	Removal Area (sf)	Removal Volume (cy)[b]
8523 Dallas Avenue S. (Security National Mortgage)					
DU01	1.0	17.9	16.9	1,878	121.4
1410 S. Cloverdale Street (McKnight)					
DU03	2.0	18.7	16.7	2,829	261.3
1421 S Cloverdale Street (Hill)					
DU36a	1.5	20.1	18.6	233	17.6
DU36b	No Removal	-	-	-	-
1425 S. Cloverdale Street (Collins/Johnson)					
DU35	2.0	19.9	17.9	1,747	132.9
DU35a	2.5	19.9	17.4	770	73.7
1440 S. Cloverdale Street (Collins/Malagon)					
DU14	1.0	19.5	18.5	3,198	253.2
1445 S. Cloverdale Street (Barnett)					
DU32a	0.5[c]	20.1	19.6	749	31.4
DU33a	1.0	20.6	19.6	546	25.4
DU33b	No Removal	-	-	-	-
1418 S. Donovan Street (Carroll)					
DU25	2.0	19.6	17.6	864	93.2
DU25a	No Removal	-	-	-	-
DU25b	No Removal	-	-	-	-
1430 S. Donovan Street (Colson)					
DU 23	0.5[c]	TBD	TBD	TBD	TBD
Yard Subtotal				12,814	1,010.2
S. Cloverdale Street Planting Strip, North (Seattle DOT)					
PS North A	1.0	19.1	18.1	947	48.5
PS North B	2.0	19.8	17.8	359	35.5
PS North C	1.0	20.2	19.2	260	15.2
S. Cloverdale Street Planting Strip, South (Seattle DOT)					
PS South A	2.0[d]	19.2	17.2	305	29.7
PS South B	2.0[d]	19.5	17.5	348	34.0
PS South C	2.0[d]	19.9	17.9	642	63.1
Planting Strip Subtotal				2,861	226.0
Southern Alleyway (Seattle DOT)					
14a, 14b, 14c	2.5	20.7	18.2	1,910	231.3
15a, 15b, 15c	1.0	20.5	19.5	707	36.6
16a, 16b, 16c	1.0	20.1	19.1	733	42.9
17a, 17b	1.0	19.7	18.7	1,419	80.2
21a, 21b	3.0	20.5	17.5	839	112.1
Northern Alleyway (Seattle DOT)					
18b	No Removal	-	-	-	-
19b	No Removal	-	-	-	-
20b	No Removal	-	-	-	-
Alleyway Subtotal				5,608	503.1
Project Total				21,283	1,739.3

Notes:

[a] Minimum removal depth defined by pre-design confirmational sampling concentrations below the removal action level of 1.0 mg/kg. Refer to the pre-excavation confimation sampling results for the Residential Yards study area (Appendix G of the removal action design report; Integral 2012).

[b] Based on level excavation at the target elevation across the entire decision unit.

[c] 0.5 ft held as minimum excavation depth. Pre-design confirmation sampling indicated non-exceedence below 0.2 ft.

[d] Removal depth was not pre-confirmed due to presence of shallow utility line. Additional excavation may be necessary based on post-excavation confirmation sampling results.

TBD = To be determined, pending completion of pre-construction survey.

APPENDIX A.21

Planned Excavation Extents and Depths - T-117 Adjacent Streets



S:\A0006 Lower Duwamish Various\A0006-15\Production MXDs\RACR\Figure1-2_ExcavBounds.mxd 12/19/2016 1:47:28 PM

integral consulting inc.

Figure 1-2.
Soil Excavation Boundaries for Adjacent Streets
Lower Duwamish Waterway Superfund Site
T-117 Early Action Area

Table 2-2. Comparison of Removal Elevation Based on Data Report vs. EE/CA Criteria

Excavation/ Decision Unit Location	Targeted Removal Elevation (ft NAVD88)	Removal Elevation Based on Criteria in 2010 EE/CA (ft NAVD88)[b]
Excavation Unit 1	16.0	16.7
Excavation Unit 2	18.1	18.7
Excavation Unit 3	16.2	16.7
Excavation Unit 4	14.2	14.7
Excavation Unit 5	16.6	16.7
Excavation Unit 6	14.2	14.7
Excavation Unit 7	16.2	18.7
Excavation Unit 8	14.5	16.7
Excavation Unit 9	21.2[a]	26.7[a]
Excavation Unit 10	15.9	16.7
Excavation Unit 11	18.4	18.7
Excavation Unit 12	16.2	16.7
Excavation Unit 13	18.5	18.7
Decision Unit 16	17.8	NA
Decision Unit 17	16.4	NA
Decision Unit 18 / Area 22	20.0[a]	NA
Decision Unit 19 / Area 23	22.1[a]	NA
Decision Unit 20 / 21	18.7	NA
Decision Unit 27 / Area 24	19.8[a]	NA
Decision Unit 28 / Area 26	26.6[a]	NA
Decision Unit 29 / Area 25	26.4[a]	NA

Notes:
EE/CA = engineering evaluation and cost analysis
NA =
NAVD88 = North American Vertical Datum of 1988

[a] Given the topographic relief within the excavation/decision unit, excavation is based on depth instead of elevation.
[b] Minimum excavation elevation to meet cleanup standard based on lowest non-TSCA sample elevation.

APPENDIX A.22

Marina Corner Transect Sample Locations

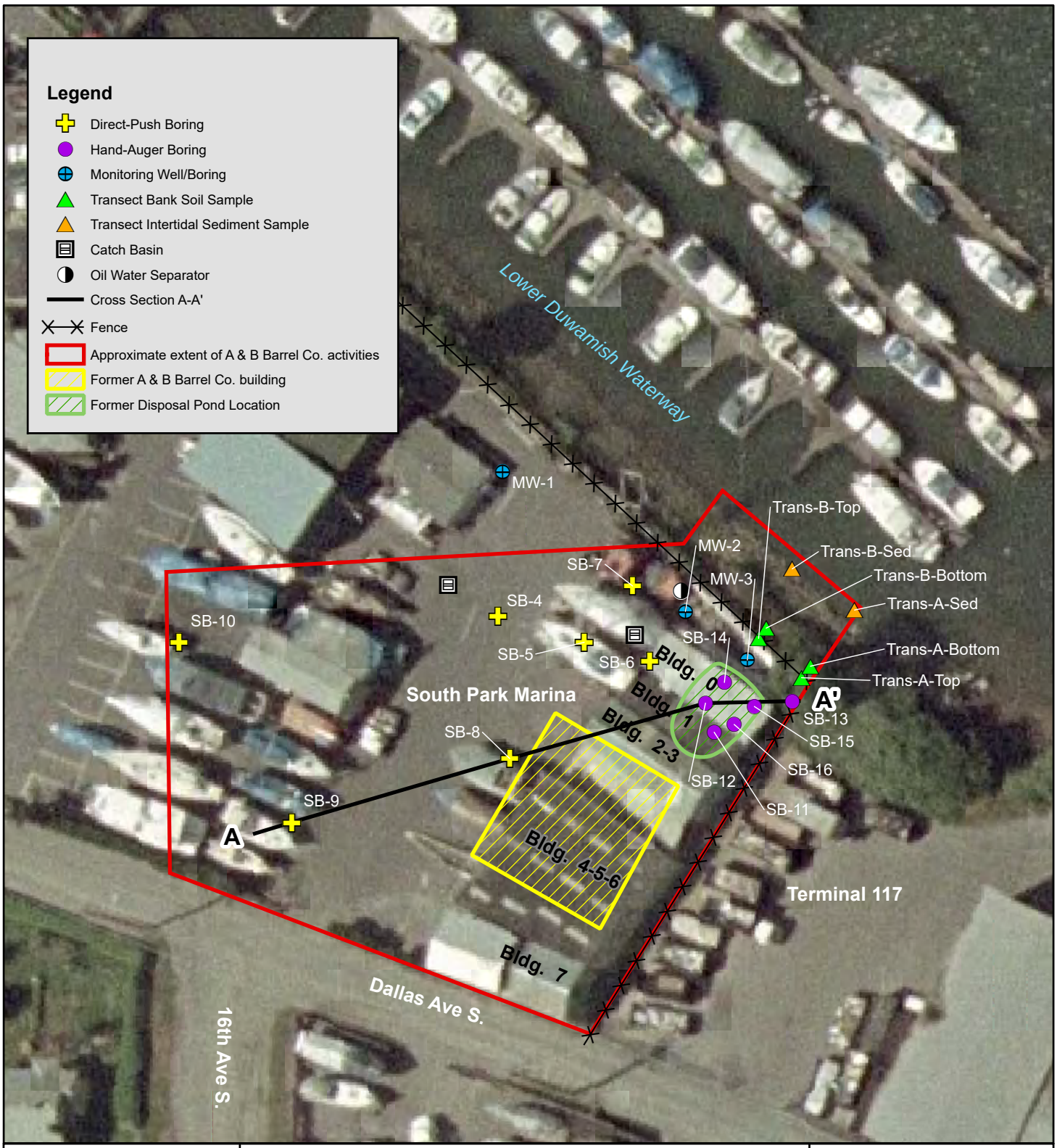


FIGURE 2

South Park Marina Site Map

DEPARTMENT OF ECOLOGY
State of Washington

SAIC
From Science to Solutions

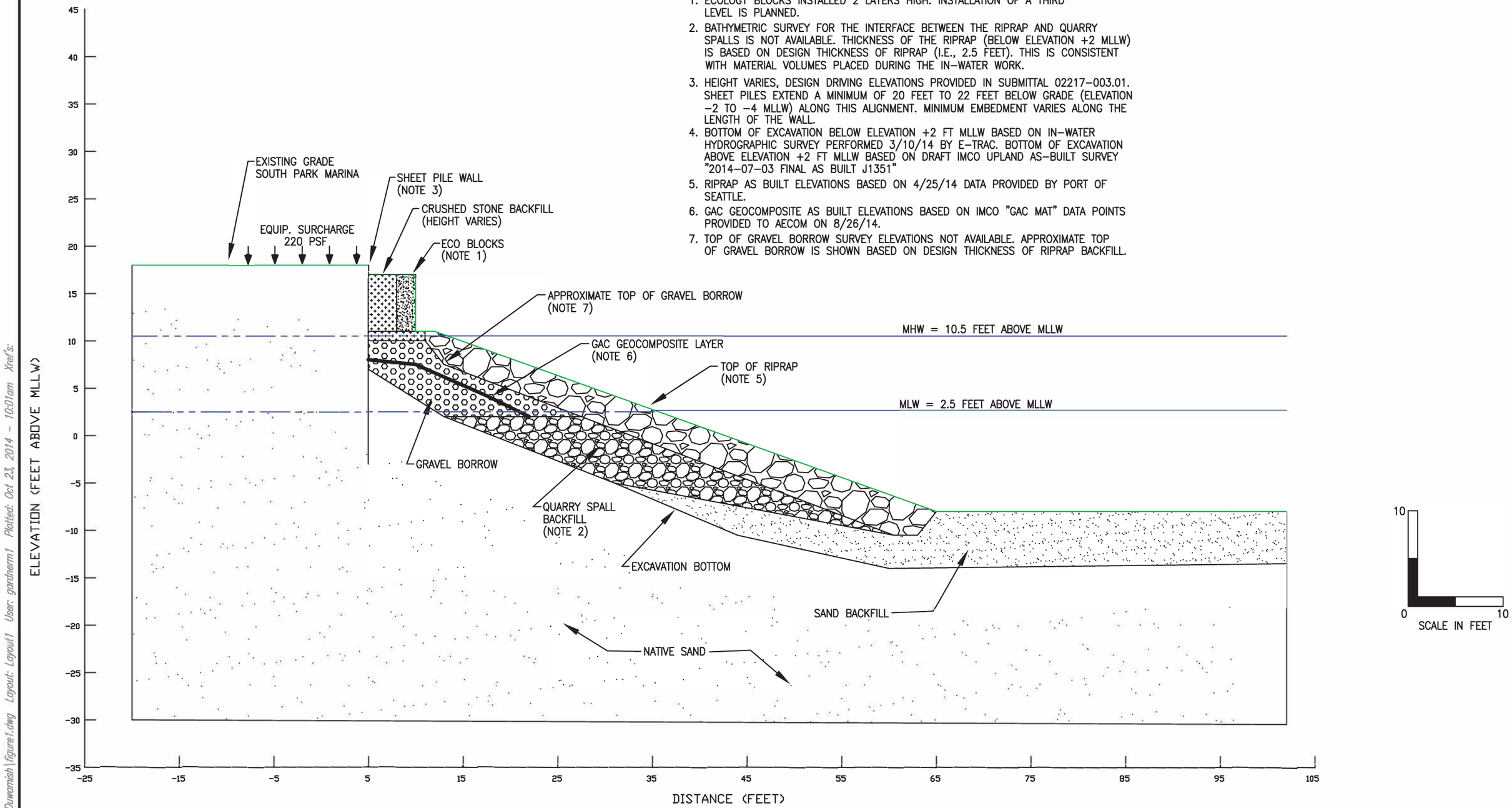
:\LDW\gis\projects\SouthPark\SiteMap061808.mxd June 25, 2008

APPENDIX A.23

Marina Corner Sheet Pile Wall As-Built Drawing

NOTES:

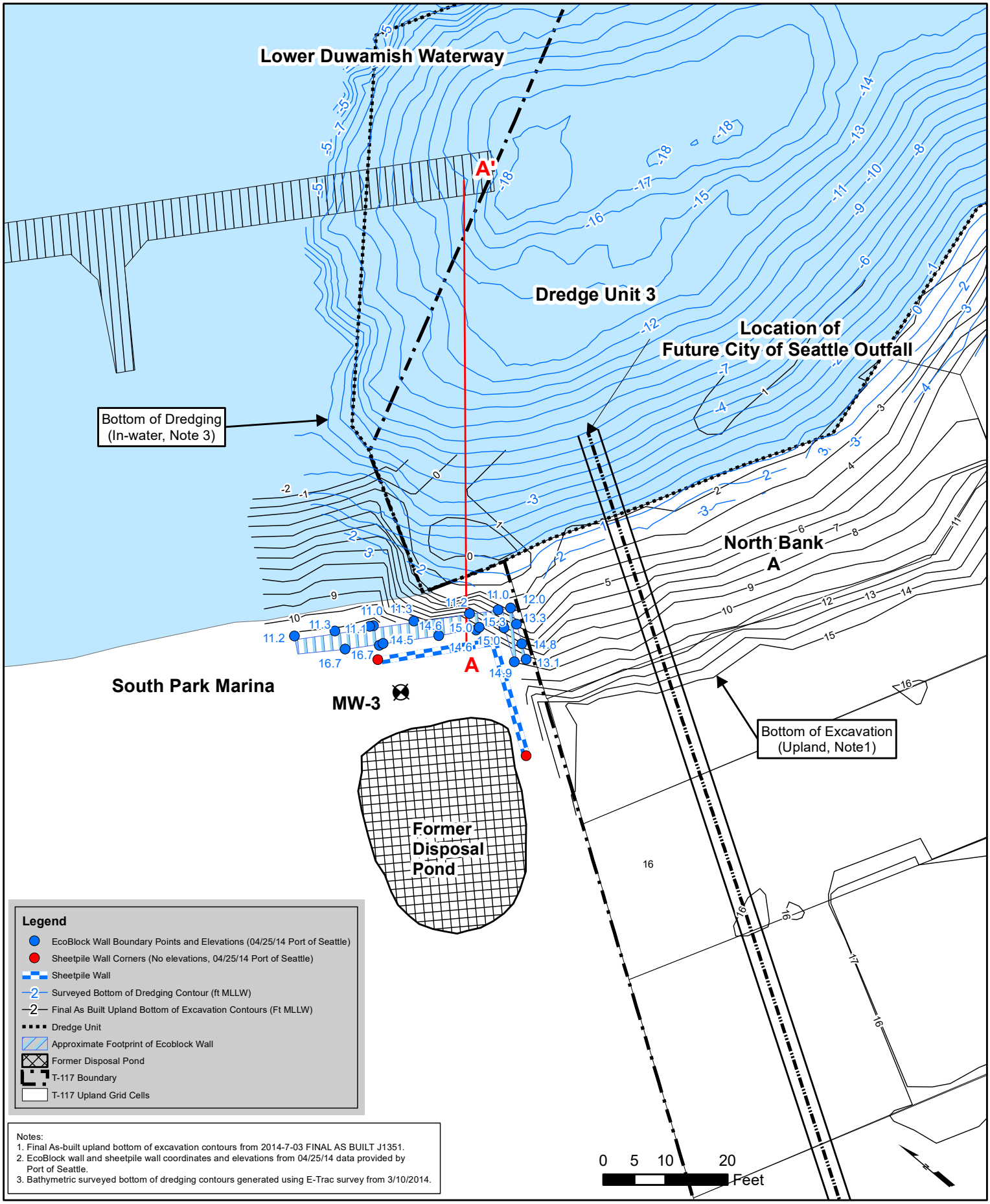
1. ECOLOGY BLOCKS INSTALLED 2 LAYERS HIGH. INSTALLATION OF A THIRD LEVEL IS PLANNED.
2. BATHYMETRIC SURVEY FOR THE INTERFACE BETWEEN THE RIPRAP AND QUARRY SPALLS IS NOT AVAILABLE. THICKNESS OF THE RIPRAP (BELOW ELEVATION +2 MLLW) IS BASED ON DESIGN THICKNESS OF RIPRAP (I.E., 2.5 FEET). THIS IS CONSISTENT WITH MATERIAL VOLUMES PLACED DURING THE IN-WATER WORK.
3. HEIGHT VARIES, DESIGN DRIVING ELEVATIONS PROVIDED IN SUBMITTAL 02217-003.01. SHEET PILES EXTEND A MINIMUM OF 20 FEET TO 22 FEET BELOW GRADE (ELEVATION -2 TO -4 MLLW) ALONG THIS ALIGNMENT. MINIMUM EMBEDMENT VARIES ALONG THE LENGTH OF THE WALL.
4. BOTTOM OF EXCAVATION BELOW ELEVATION +2 FT MLLW BASED ON IN-WATER HYDROGRAPHIC SURVEY PERFORMED 3/10/14 BY E-TRAC. BOTTOM OF EXCAVATION ABOVE ELEVATION +2 FT MLLW BASED ON DRAFT IMCO UPLAND AS-BUILT SURVEY "2014-07-03 FINAL AS BUILT J1351"
5. RIPRAP AS BUILT ELEVATIONS BASED ON 4/25/14 DATA PROVIDED BY PORT OF SEATTLE.
6. GAC GEOCOMPOSITE AS BUILT ELEVATIONS BASED ON IMCO "GAC MAT" DATA POINTS PROVIDED TO AECOM ON 8/26/14.
7. TOP OF GRAVEL BORROW SURVEY ELEVATIONS NOT AVAILABLE. APPROXIMATE TOP OF GRAVEL BORROW IS SHOWN BASED ON DESIGN THICKNESS OF RIPRAP BACKFILL.



AECOM

PORT OF SEATTLE T-117 EMBANKMENT STABILITY ANALYSIS 60288925			**EMBANKMENT AS-BUILT CROSS SECTION**
DATE: 10/22/14	DRWN: MJG		**FIGURE 1**

File: C:\001 work files\Duwamish\figure1.dwg Layout: Layout1 User: gardnerm1 Plotted: Oct 23, 2014 - 10:01am Xref's:

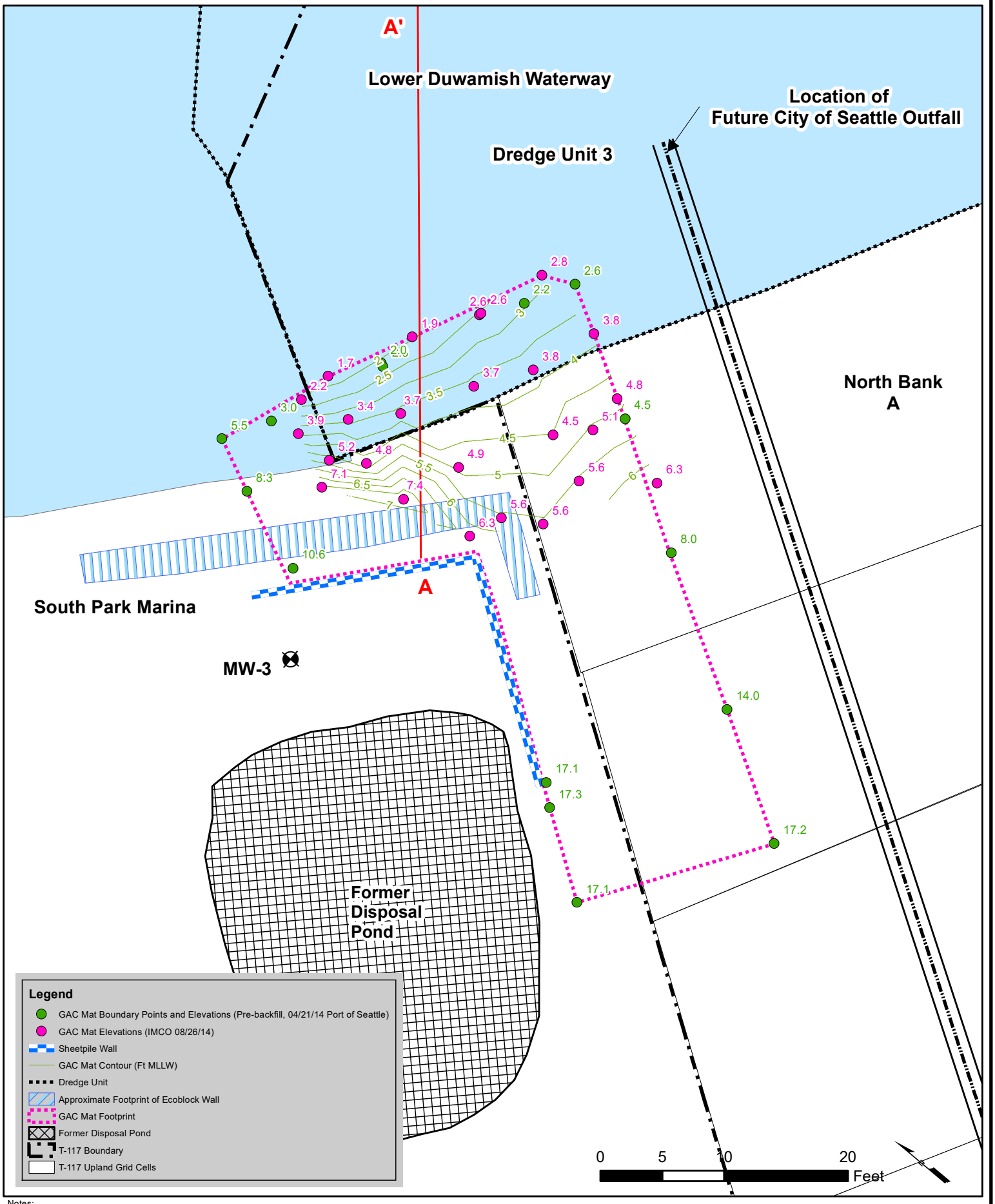


Notes:
1. Final As-built upland bottom of excavation contours from 2014-7-03 FINAL AS BUILT J1351.
2. EcoBlock wall and sheetpile wall coordinates and elevations from 04/25/14 data provided by Port of Seattle.
3. Bathymetric surveyed bottom of dredging contours generated using E-Trac survey from 3/10/2014.

AECOM

T-117 CLEANUP SEDIMENT AND UPLAND AREAS			**MARINA BANK CORNER BOTTOM OF EXCAVATION**	
Date: 10/20/2014	DRWN:mvi/sea	Revision: 2	Project No: 6028925	**FIGURE 2**

Path: P:\ENV\PROJECTSW\Port of Seattle\T-117 Cleanup Oversight\900-CAD-GIS\AECOM\MXD\Marina Corner As-Built\Figure 2 Bottom of Excavation.mxd

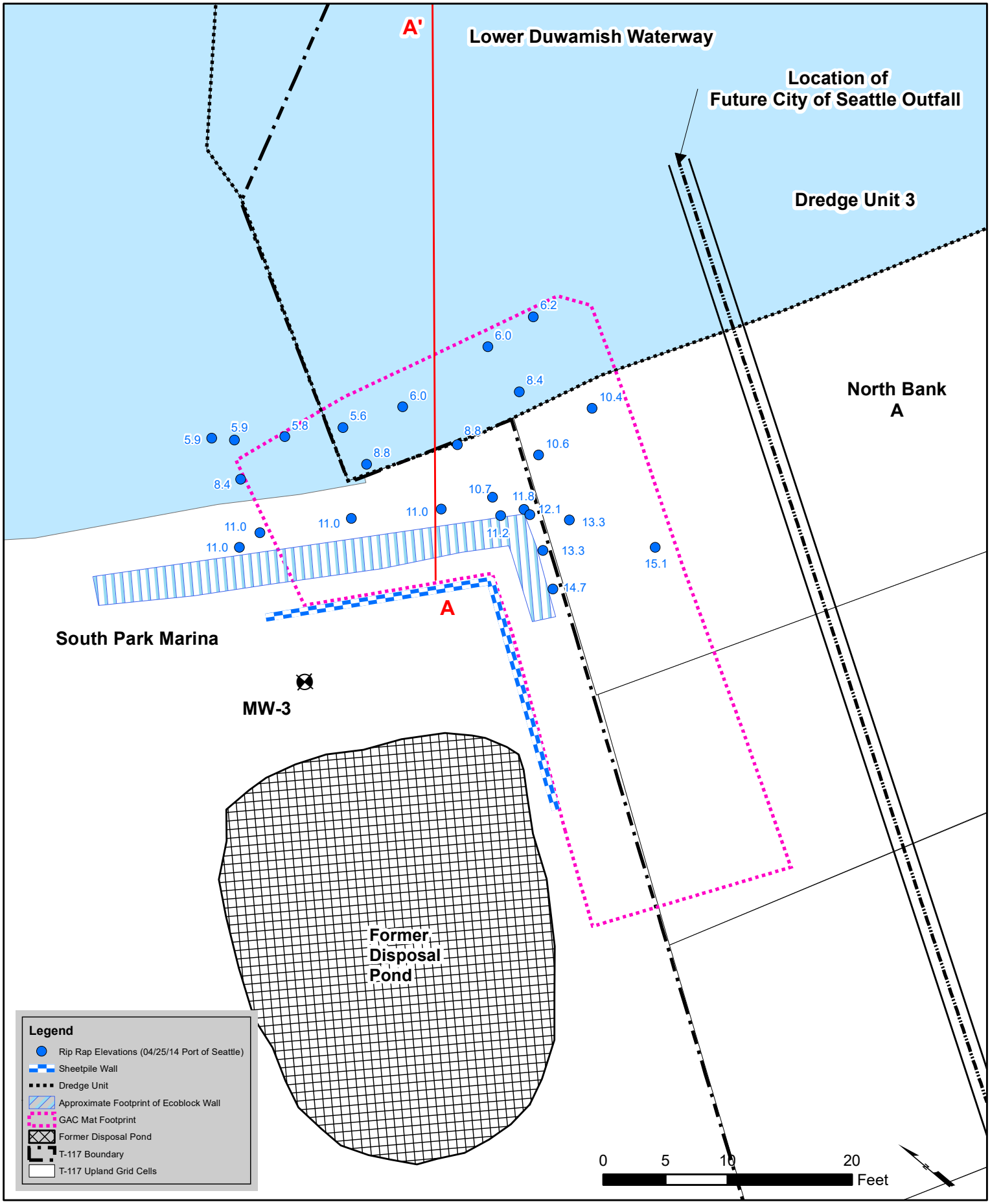


Notes:
1. GAC mat coordinates, elevations, and contours from 08/26/14 data provided by IMCO.
2. GAC Mat boundary locations and elevations from GAC MATT 4-21-14.

AECOM

T-117 CLEANUP SEDIMENT AND UPLAND AREAS			MARINA BANK CORNER GAC GEOCOMPOSITE AS-BUILT	
Date: 10/6/2014	DRWN:mvi/sea	Revision: 2	Project No: 6028925	FIGURE 3

Path: P:\ENV\PROJECTS\W\Port of Seattle\T-117 Cleanup Oversight\900-CAD-GIS\AECOM\MXD\Marina Corner As-Built\Figure 3 Bottom of Mat.mxd



Notes:
1. Rip Rap coordinates and elevations from 04/25/14 data provided by Port of Seattle.
2. GAC mat extent from 08/26/14 data provided by IMCO.

AECOM

T-117 CLEANUP SEDIMENT AND UPLAND AREAS			MARINA BANK CORNER RIP RAP AS-BUILT ELEVATIONS	
Date: 10/6/2014	DRWN:mvi/sea	Revision: 2	Project No: 6028925	FIGURE 4

Path: P:\ENV\PROJECTS\W\Port of Seattle\T-117 Cleanup Oversight\900-CAD-GIS\AECOM\MXD\Marina Corner As-Built\Figure 4 Rip Rap Elevations.mxd

APPENDIX A.24

Marina Corner Sheen Memo

AECOM
710 Second Avenue, Suite 1000
Seattle, WA 98104

206.624.9349 tel
206.623.3793 fax

Memorandum

To	Roy Kuroiwa, Stacy Heilgeist, Kym Anderson – Port of Seattle	Page	1
CC	Mary Mitchener – City of Seattle; Ben Starr – Integral; Kristin Kerns – USACE; Mike Byers – Crete		
Subject	Terminal 117 – Upland and Sediment NTCRA, Sheen in Seeps Bordering Dredge Unit 3		
From	Noah Garguilo, Anne Fitzpatrick, Winston Chen, Charles Vita – AECOM		
Date	April 7, 2014		

On behalf of the Port of Seattle (Port), this memorandum identifies modifications to the backfill plan in portions of North Bank A and Dredge Unit 3 (DU3) that border the South Park Marina (SPM) at Terminal 117 (T-117). These modifications are proposed to address the presence of sheen, which has periodically been observed in the bank area of DU3, and to reduce the potential for recontamination of the backfill.

The area of interest is located north of the T-117 North Bank A, in the southeast corner of the SPM. At this corner, a temporary sheet pile was installed to provide bank stability during soil and sediment excavation. The sheet pile wall was placed in an "L" shape approximately 18 ft long on both the eastern and southern sides. Ground surface elevation at the SPM is approximately +19 ft mean lower low water (MLLW). The bottom of the excavated ground surface in the North Bank A/DU3 excavation area slopes from about +15 ft MLLW to -16 ft MLLW along an approximately 2H:1V slope. Along the eastern border of the SPM, the grade transitions steeply between the SPM and the extent of excavation (Attachment 1, Photo 1).

1.0 Excavation History

North Bank A was excavated to design grade beginning September 16, 2013 (slope between +2 and +15 ft MLLW). Round 1 bank confirmation sampling indicated exceedances of the removal action levels (RvALs). An additional foot of excavation was performed beginning October 10, 2013, based on Round 1 bank confirmation exceedances. One additional foot of excavation was performed on November 6, 2013, based on Round 2 bank confirmation exceedances. Round 3 confirmation samples were below the RvALs for the T-117 contaminants of concern (COCs) (cPAHs, PCBs, Diesel, and TPH). Excavation was completed across North Bank A except for approximately 15 ft bordering the SPM where slope stabilization was needed before performing further excavation. On December 28, 2013, a utility pole on the SPM corner was relocated, and a temporary steel sheet pile wall was installed on the SPM property.

The corner of North Bank A that borders the SPM was excavated on the nights of January 2 and 3, 2014 (Photo 1). The area was excavated to final grade, and a final topographic survey of the area was performed on February 13, 2014. At times, excavation in North Bank A encountered tar-like material, which was removed when encountered. No sheen was observed on the surface water in North Bank A at

any time during or immediately after excavation. North Bank A was over-excavated a total of 1 to 2 ft below design grade.

Dredging of DU3 began January 31, 2014. Soon after, site personnel noted unstable soil conditions along the slope leading from DU3 to the east face of the temporary sheet pile wall. On February 12, 2014, site personnel observed major sloughing (i.e., surficial slope failure) of the slope between the eastern border of the SPM and DU3, approximately 10 ft northwest of the temporary sheet pile corner. The approximate location of sloughing is shown on Figure 1; it extends for the entire slope along the sheet pile wall from the top of bank (to within 3 ft of the temporary sheet pile wall) down to below the low tide water line. The bottom of dredging grades (before backfill) as well as ground surface elevations (surveyed on March 17, 2014 after sloughing occurred) are shown on Figure 1. The locations of various cross sections are shown on Figure 2. A conceptual cross section of the area is shown on Figure 3, including soil stratigraphy based on reported data for the SPM (SAIC 2009) and field observations. As of March 22, 2014, the DU3 dredge area, bordering the SPM, has been backfilled to approximately elevation +2 ft MLLW. The top of backfill survey is not currently available, but approximate backfill grades are shown on Figures 4 and 5.

2.0 Appearance of Sheen

On February 1, 2014 during oversight of dredging activities in DU3, a sheen was noted on the water surface near the SPM bank corner (low tide of approximately 4 ft MLLW). The onsite USACE representative was notified and the contractor was directed by the Port to place a containment boom around the area (Photos 2 and 3). Dredge oversight personnel visually assessed the area and determined that the sheen was focused near the North Bank A/SPM bank corner (Photo 4). However, geotextile fabric covering the area prevented direct observation of the slope.

Since then, a sheen varying in appearance from milky white to rainbow color, has been observed within the boomed area on February 11, 12, 13, 21, 22, and 25, 2014, and several intermittent days in March after an absorbent boom was installed. Sheen was contained within the absorbent boom along the toe of the sheet pile wall (Photo 4). The boom is inspected and maintained daily by the onsite contractor (NRC). No visible heavy petroleum product (e.g., dark brown blebs, etc.) has been noted. The estimated location of the sheen discharge is thought to be contained within the area bordering the corner of the temporary sheet pile wall. When present, sheen continues to collect at the waterline along the corner of North Bank A near the sloughed area, and is contained by the boom. A panoramic photo showing the temporary sheet pile wall, SPM, sheen area, and the slough area is included in Attachment 2.

An inspection of the bank was conducted on March 6, 2014 by AECOM at an approximate low tidal height of +2.5 ft MLLW. The purpose of the inspection was to identify the source of the seeps (and if sheens were present). This inspection indicated two areas of small groundwater discharge seeps from a perched silt layer at about 7 to 8 ft MLLW elevation: (1) discharge on east bank of the SPM (from tidal inundation and/or perched groundwater draining) along the entire sloughed area as a diffuse wet area along the face; where water flow was too slow to obtain an estimate of the discharge and (2) discharge on south side of sheet pile wall with rivulets continuing down the bank; water flow roughly 0.2 gallons per minute (gpm). No sheen was visible at the point of discharge in either area, but a sheen was observed near the base of the slope as groundwater made contact with the Lower Duwamish Waterway (LDW) indicating sheen may be produced as a result of the seep discharging over the exposed soils (direct contact with surface soil). Soil along the base of the east bank was very loose, providing evidence that it may have sloughed from the bank.

Based on these observations, we infer that some or all of the observed sheen is due to contact with exposed soils on the east/south bank of the SPM corner. There is also potential that sheen may be

present in groundwater originating from the SPM property, based on elevated TPH detections measured in site soil data and based on the former property use[1] (SAIC 2009; Table 1). TPH was not detected in SPM wells, although sampling methodology may not have captured sheen if present in site groundwater. Additionally, a preferential pathway for groundwater flow may have been created during construction by (1) removal of overburden along the bank face and associated reduction in soil confining pressure and/or (2) installation of the temporary sheet pile wall at the marina corner disturbing and potentially redirecting groundwater flow toward the T-117 site from the SPM (e.g., change in hydraulic head groundwater, change in groundwater flow direction).

3.0 Sample Collection

Sample collection was performed on March 6 and March 17, 2014. Detailed chemistry results (unvalidated) of soil and water samples are included in Tables 2 and 3 respectively. TPH and PCB data results are summarized and compared to other applicable datasets in Table 1.

March 6 Sample Collection

On March 6, 2014, AECOM staff collected a surface water sample with rainbow sheen along the shoreline (approximate low tide of +2 ft MLLW) near the corner of the temporary sheet pile wall (see Figure 1). The sample was submitted to the laboratory for hydrocarbon identification (NWTPH-HCID) analysis to aid in consideration of amendments to the backfill. HCID results detected heavy oil range hydrocarbons (>0.5 mg/L in water). Lighter end hydrocarbons (gasoline and diesel range) were non-detect (Table 1). The observed seep was not sampled for chemical testing (located about 3 ft south of the sheet pile wall).

A 6-point soil composite sample was also collected from the bank. Subsamples were taken from the sand layer present at approximately +3 to +7 ft MLLW elevation (below the silt layer at 8 ft) along the eastern wall. The sample was loose, light brown, fine to medium sand. The soil sample was submitted to the laboratory for NWTPH-HCID and total PCB analysis. HCID results detected heavy oil range (> 250 mg/kg dw) and PCB Aroclors 1254 (1.6 mg/kg dw) and 1260 (1.4 mg/kg dw).

March 17 Data Collection

On March 17, 2014, the Port and AECOM conducted additional soil sampling of the same exposed face, which was sampled on March 6, for analytes found in the marina soils (SAIC 2008; Cd, Cu, Pb, Zn, pesticides/herbicides, PCBs, DRO, GRO, RRO, and VOCs). Sampling occurred at periods of low tide to allow site access; and sample locations for the 6-point composite sample (about +5 ft MLLW) are shown on Figure 1. In addition, the seep observed on T-117 property (about 5 ft from the sheet pile wall) was also sampled to evaluate seep quality in this area before slope backfilling is performed. The seepage was dispersed along the face as small weeps at about +7 ft elevation (in the silt layers). The collective flow was assessed to be roughly about 0.1 to 0.2 gpm, but much slower in individual locations. Because of the dissipated flow, a small hole was dug (about 1 ft by 1 ft) to capture the flowing water. Initial turbidity was 384 NTU but quickly cleared to 122 NTU then 70 NTU as the solids settled. Based on these turbidity readings (> 5 NTU), samples for PCBs, pesticides, and TPH were lab-filtered before testing. Samples for metals testing were filtered in the field. No sheen was observed on the Duwamish River water surface when staff arrived at the site, but gradually appeared as the exposed soils were physically disturbed during sampling (i.e., walking back and forth to collect samples and taking field measurements). A ground surface elevation survey of the area was also performed (see Figure 1). Soil and groundwater samples were sent to the laboratory for analysis of heavy metals (Cd, Cu, Pb, Zn), pesticides/herbicides, PCBs, TPH (gasoline, diesel, and motor oil ranges), and VOCs.

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[1] The A&B Barrel Company formerly operated on the SPM property, and used the corner of the property abutting T-117 North Bank A as a disposal pond for oils, grease, and sodium hydroxide (SAIC 2009).

Soil analysis detected diesel range (520 mg/kg) and motor oil range (1,500 mg/kg) but did not detect gasoline range TPH. PCBs were also detected (Aroclor 1254 at 3.5 mg/kg dw, Aroclor 1260 at 1.9 mg/kg dw). Analytical results (unvalidated) are included in Table 2 for soil data.

Groundwater analysis detected diesel range hydrocarbons at 0.11 mg/L, but gasoline and motor oil range were not detected. PCB Aroclor 1260 was detected in the groundwater seep sample at 0.062 µg/l. Analytical results (unvalidated) are included in Table 3 for seep data.

4.0 Design Modification

Per the project plans, the backfill design for the T-117 slope area in this portion of the site was to consist of non-woven geotextile filter fabric along the excavated grade, then 5 to 6 ft of backfill, overlain by 2.5 ft of riprap for stability (Crete 2012).[2] Modifications to the project plans are being made in this area to reduce the potential for sheen releases containing TPH to reach the LDW after backfilling. The design of the backfill material has been modified as shown on Figures 4, 5, and 6. The modification consists of placing a high-permeability, approximately 1/4-inch thick, activated charcoal-carbon geocomposite layer near the bottom of the backfill instead of the non-woven geotextile. Activated charcoal/carbon (AC) is an industry-standard method of treating organic compounds in water via adsorption.[3] Based on immediate product availability, the Huesker FilterMat AC will be used as the geocomposite. Product specification sheets are included in Attachment 3.[4]

Based on the lack of past observations of sheen before soil was exposed and sloughing occurred, backfill alone may be sufficient to prevent sheen in the future. However, the granular activated carbon (GAC) geocomposite is being added by the Port as an additional measure to reduce the potential for sheens to emerge in this area after backfilling. (It also helps reduce the potential for groundwater discharge to recontaminate the backfill after construction is complete.) See the *Uncertainty/Limitations* section for more discussion.

Horizontal Extent of the *Geocomposite Layer*

The proposed horizontal extent of enhanced backfill material with the geocomposite is shown on Figure 1. The material will be placed on about 30 ft of shoreline extending from the northern end of the sheet pile wall to about 10 to 15 ft south of the sheet pile wall corner (about 5 ft into T-117 property). As shown on Figure 1, this encompasses the groundwater seep and soil sample locations from March 6 and March 17. The material will be placed starting at approximately +15 ft MLLW elevation down to approximately +2 ft MLLW (current extent of backfill). Material will be placed using land-based equipment at low tide. A conceptual cross section showing geocomposite placement in North Bank A (along the southern leg of the temporary sheet pile wall) is included on Figure 4. A conceptual cross section showing the geocomposite placement in DU3 and the east bank of the SPM is included on Figure 5. A section showing geocomposite placement between North Bank A and the SPM is included on Figure 6. The geocomposite layer will be surveyed following placement to delineate the placement area.

The geocomposite will be placed on an approximately 350 ft^2 area as shown on Figure 1. The horizontal extent of the geocomposite layer was based on the following considerations:

- The extent of the apparent discharge area and slough area.

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2 The backfill material consists of sand and quarry spalls below elevation +2 ft MLLW and gravel borrow above +2 ft, as per design drawings.

3 Adsorption is the process of a substance adhering to the surface of a solid (including the surface presented by internal pore space. Absorption is the process of an atom, molecule, or ion entering a bulk phase (solid, liquid, or gas). TPH is adsorbed by the surface of GAC.

4 The geocomposite contains approximately 800 grams of GAC per square meter.

- The width of available geocomposite (~15 ft).
- Coverage near top of slope above the perched groundwater at about +8 ft MLLW.
- The eastern extent (into the LDW) – to +2 ft MLLW elevation.
- The southern extent – area of observed seep discharge plus an approximately 5-ft buffer.
- The western extent – observed extent of groundwater seepage from the area. Geocomposite will be extended to the top of the bank slope for anchoring.

Geotechnical Evaluation

In collaboration with AECOM, a geotechnical engineering evaluation is currently being conducted by Crete (supported by Jacobs Engineering) to check that the geocomposite conceptual design as represented on Figures 1, and 4 through 6 will not undermine the slope stability of the North Bank and the permanent support of the SPM corner. A slope stability analysis is being conducted for two areas: the T-117 slope located along the north bank and south of the sheet pile wall, and the sloughed area located east of the sheet pile wall. In addition, a sample of the geocomposite material was submitted to GeoTesting Express geotechnical laboratory for shear stress analyses (ASTM D6243 Internal Shear and ASTM D6496 Peel Strength) to evaluate the internal shear strength of the material. Final test results were received on April 3, 2014. An appropriate interface friction value (phi value) has been sent to Crete for use in evaluating slope stability.

The analysis is being performed with the understanding that the temporary sheet pile wall will be removed, as shown on Figures 4 and 5. AECOM expects that the Crete-Jacobs analysis will support the conceptual design presented in this memorandum. After making any needed design refinements, a final, stamped design drawing will be developed by Crete and provided by the Port to the contractor for installation.

Geocomposite Potential Design Life

The function of the proposed geocomposite layer is to adsorb organic contaminants, and thereby inhibit the release of TPH sheen. As such, it is anticipated to have a finite design life if the source of sheen is not removed or depleted. Given the project's time constraints, it was necessary to select a geocomposite prior to performing a detailed estimate of the potential design life. An analysis was conducted to provide an estimate of the breakthrough time for the geocomposite. The analysis uses a version of the Active Cap Layer Model (Lampert and Reible 2009) modified for the LDW Feasibility Study (AECOM 2012). Site-specific T-117 values were used as appropriate and available for model input. The analysis focused on heavy/motor oil range (detected in soil) and diesel range (detected in soil and groundwater) TPH (see Tables 2 and 3). The goal of this analysis was to calculate a range of potential breakthrough times for the GAC geocomposite given the range of assumed input values. Conclusions regarding the potential design life for breakthrough of PCBs from the underlying soil through the GAC layer are also included in this memorandum.

Model Setup and Assumptions

The model is typically applied to model caps that will be continuously submerged and not subject to tidal flushing. The transient and variable nature of tidal flushing is difficult to quantify. To help compensate for this unknown, a constant groundwater flow at a relatively high rate was assumed, which is indicative of the ebb tidal cycle when contaminant transport is expected to be highest. During the flood cycle, it is assumed that groundwater velocities may slow and flow may reverse (e.g., flow from the river into the bank), slowing or reversing the transport of contaminants. Not including the flood phase of the tidal cycle in the modeling functions as a conservative assumption.

The breakthrough in the model is defined as the point where 1% of the initial contaminant concentration passes through the active layer (e.g., the GAC geocomposite). The initial concentrations used in the model runs were 500 µg/L in groundwater and 2,000 mg/kg in soil. A 1% breakthrough of these initial

concentrations would not likely cause a visible sheen. This evaluation criterion (i.e., 1%) was used because it is an integral component of the model mechanics (Lampert and Reible 2009) and provides an indication of the effective life (breakthrough) of the GAC layer.

Two key parameters control the calculated breakthrough time: the organic carbon partitioning coefficient (Koc) and the effective groundwater flux (Darcy velocity). The sensitivity of analysis results to these parameters was explored in the model runs as described below:

- **Partitioning Coefficient**. Koc for a single TPH fraction can vary over four orders of magnitude depending on the hydrocarbon chain length and structure (i.e., aliphatic vs. aromatic). Hydrocarbon source compositions vary; however, aromatics tend to be the minority fraction and aliphatics (with a significantly higher Koc) the majority of TPH mixtures. Model runs varied the log Koc from 5.1 to 8.8, which is representative of aromatic and aliphatic motor oil range hydrocarbons, and aliphatic diesel range hydrocarbons. This parameter was the single most important factor in calculating breakthrough times, and is why results are presented as a range (see *Model Results* section).
- **Groundwater Flux.** The Darcy velocity in this analysis was kept fairly high to consistently reflect the ongoing seeps and weeps observed. The groundwater seeps measured at T-117 ranged from 12 mL/sec (measured on 3/16/14) to 360 mL/sec (App. J, Basis of Design Report, Crete 2012). These values were converted to Darcy velocities for use in the model. Assuming these seeps were distributed over 90% of the backfilled area, this yielded a range of values used in modeling of 270 cm/yr up to 8,125 cm/yr. For comparison, the highest Darcy velocity used in cap modeling in the LDW FS (AECOM 2012) was 590 cm/yr. The SPM sediment recontamination assessment (SAIC 2009) estimated groundwater flux through the former disposal pond at 45 ft^3/day over a 1,000 ft^2 area, equivalent to 500 cm/yr. Both of these values fall within the range of Darcy values assumed here.

Model Results

The best estimate calculated breakthrough time of diesel and heavy/motor oil range TPH through the GAC layer ranges from 7 to 30 years, depending on the partitioning coefficient used for petroleum. The presence of a notable sheen on the surface water may or may not coincide with these calculated breakthrough times, depending on site conditions and many other site factors not accounted for in the model runs (see *Uncertainty/Limitations* section). Additionally, TPH will also undergo sorption with the gravel borrow backfill. This is anticipated to further reduce the potential for visible sheen reaching the LDW after backfilling.

The potential design life for breakthrough of PCBs through the GAC geocomposite and migration through gravel borrow backfill to the water surface (and to the biologically active zone [BAZ] of newly deposited sediment if present) was also assessed based on three lines of evidence. First, results of the calculations performed for TPH breakthrough in this memo can be extrapolated for PCBs. The log Koc values for PCB Aroclors 1254 and 1260 are approximately 4.9 and 5.3 respectively (SAIC 2009); these values are similar to the mid-range Koc values used in the model. Because Koc is the dominant parameter in the model, it is anticipated the GAC geocomposite would have a similar potential design life (7 to 30 years) or longer for PCBs, evaluated as a 1% breakthrough. Second, a 1% breakthrough (of the soil PCB concentration of 5.4 mg/kg dw sampled on March 17) is unlikely to cause an exceedance of the Sediment Quality Standards (SQS) at the upper boundary of the geocomposite (e.g., 1% of 5.4 mg/kg dw concentration is less than the SQS dry weight equivalent of 130 ug/kg dw). Third, the cap will be integrated with approximately five or more feet of gravel borrow backfill. The T-117 backfill/capping memorandum for PCBs in DU1 (Crete 2014) calculated the sand backfill would function as a cap for soil PCB concentrations up to 100 mg/kg dw remaining in the underlying material for up to 100 years before surface sediment concentrations in the BAZ would exceed the SQS. Given the similar properties of the backfill materials and the lower PCB concentrations in the marina area (compared to the 100 ppm concentration evaluated in Crete's 2014 memorandum), the gravel borrow backfill is anticipated to have a significant potential design life after breakthrough of the GAC. Based on these three lines of evidence, it

appears likely that the combination of GAC geocomposite and backfill material should provide adequate protection and isolation of PCB concentrations in the underlying soil for the next 100 years.

5.0 Uncertainty/Limitations

This memorandum identifies backfill modifications to the SPM corner to address the presence of sheen periodically observed in surface water and to prevent (or limit) recontamination of the backfill after placement. Best professional judgment and preliminary design calculations were used to develop these modifications. Limitations and uncertainty associated with these assumptions are discussed below.

- The addition of GAC material should be considered a temporary cap, and not a fully engineered isolation cap designed in accordance with all applicable best management practices. This proposed modification is being implemented in the limited time frame available for construction using our interpretation of the currently available information and availability of GAC material. GAC performance should be considered a temporary adaptive-management source control solution. It is possible that the GAC geocomposite in combination with the T-117 backfill may be able to perform all the functions of a long-term engineered cap, but effectiveness and longevity are uncertain at this time (see Section 6).
- There is a potential for the GAC to be fouled over time as it continually comes in contact with free NAPL product. If this situation occurs, the potential design life of the GAC geocomposite would be reduced. The likelihood and impact of fouling has not been assessed.
- Implementation of the contaminant model utilized the following assumptions:
  - *Linear portioning*. The Reible active cap model uses a linear portioning coefficient. Activated carbon is widely recognized to undergo non-linear sorption (i.e., Freundlich isotherm) where the adsorptive capacity becomes exhausted above a certain loading. Modeling of non-linear isotherms is possible using more sophisticated model mechanics; however, the assumption of a linear portioning coefficient provides a reasonable estimate at low inflow concentrations.
  - *Infinite source*. It was assumed that a measured contaminant concentration of the source would not decrease over time as contaminant mass was transported by groundwater flow. This assumption supports a conservative estimate of breakthrough time.
  - *TPH as the sole sorbate*. Activated carbon can adsorb a wide variety of dissolved compounds, some of which are present in the groundwater. The adsorption of other compounds by GAC would decrease its effective lifespan with regard to TPH. This reduction in sorptive capacity has not been quantified in this memorandum.
- The model only predicts contaminant breakthrough of the GAC material (placed between +2 ft and top of slope). During very low tide, groundwater may discharge from the bank below elevation +2 ft MLLW. During these periods, it is possible that impacted groundwater (and associated sheen) may discharge at lower elevations (below +2 ft MLLW) through the quarry spalls and rip rap (see Figure 5). Neither of these materials is anticipated to have a significant ability to adsorb TPH. As a result, it is possible that sheen may periodically appear at the water surface during these times. Given the constraint of only being able to work in the dry, the geocomposite will not be placed below +2 ft MLLW. However, expression of sheen has not historically been observed, and it is anticipated that placement of backfill may reduce the likelihood of transport via this pathway.

6.0 Future Inspections

A visual inspection of the area will be periodically conducted as part of long-term monitoring to ensure adequate protection and performance. These inspections will be performed at low tide, and will

document the condition of the surrounding area. Visual inspections will likely include a minimum of two tasks:

- Inspect the soil bank surface and surface water for signs of sheen. Note the size, color, odor, and location of sheen if present.
- Inspect the bank for signs of cap disturbance or geotechnical instability (e.g., displaced riprap, soil cracking, etc.). Note if newly deposited sediment is present on the bank.

Details and frequency of monitoring will be developed as part of the upcoming T-117 Long-term Monitoring and Maintenance Plan (LTMMP).

7.0 References

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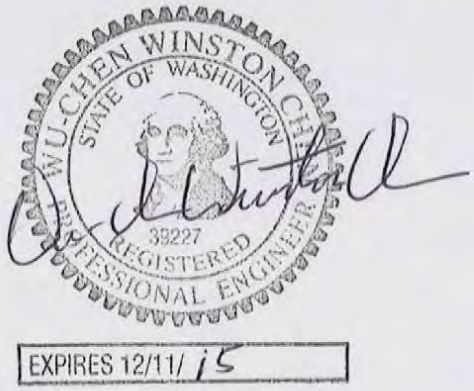
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Signed,



Wu-Chen Winston Chen, P.E.



Charles Vita, P.E.

Attachments:

Table 1 – Summary of Area Chemistry Data (PCBs and TPH)

Table 2 – Summary of 2014 Marina Bank Soil Sample Results

Table 3 – Summary of 2014 Marina Bank Water Sample Results

Figure 1 – Marina Bank Corner Plan View (Extent of Observed Sheen and Proposed Extent of Geocomposite)

Figure 2 – Marina Bank Corner Plan View Showing [Cross] Section Locations

Figure 3 – Conceptual Cross Section of Marina Bank (Existing Conditions)

Figure 4 – Cross Section, North Bank

Figure 5 – Cross Section, South Park Marina

Figure 6 – Conceptual North Bank A to South Park Marina Section

Attachment 1 – Photos of Observed Sheen

Attachment 2 – Panorama Photo of North Bank A and South Park Marina taken 3/12/14

Attachment 3 – Manufacturer Product Data – Huesker Filtermat AC

Last revised by NJG on 4/3/14, reviewed by AGF on 4/3/14; saved in AECOM/projectW/PoS/T-117/technical/Research/SheenDU3MemoRev 2

Table 1. Summary of Area Chemistry Data (PCBs and TPH)

Study	Media	Sample	**Total PCBs** (mg/kg dw or mg/l)	**TPH** (soil – mg/kg dw, GW – mg/l)		
				GRO	**DRO**	**RRO**
Marina Investigation (SAIC *SPM Data Report June 2008)*	Upland Soil (inside disposal pond)[c]	SB-14 (7.5 ft bgs)	11.9 (7 = PCB1254; 4.9 = PCB1260)	350 J	3,000 J	8,900 J
	Upland Soil (outside pond)	SB-13 (7 ft bgs)	13 (13 = PCB1254)	1.6 U	950 J	4,700 J
	Riverbank Soil	Transects A and B (highest conc.)	0.32 (PCB1260)	5.1 U	1,300 J	620 J
	Groundwater	MW-3 (abandoned)	n/a	ND[d]	ND[d]	ND[d]
2014 Marina Bank Samples *(collected March 6 and 17, 2014)*	Surface Water	w/sheen	n/a	ND[d]	ND[d]	Detected[d]
	Riverbank Soil	6-pt composite[b]	5.4 (3.5 = PCB1254; 1.9 = PCB1260)	2 U	520 J	1,500
	Groundwater Seep	Seep	0.000062 (ND = PCB1254; 0.000062= PCB1260)	0.012 U	0.11 J	0.25 U
T-117 Cleanup (on-going)	Soil Confirmation Samples	North Bank A composite (11/1/13)	0.022 (PCB1260)	n/a	14	38
T-117 Cruise and Data Report *(Windward, 2005)*	Intertidal seeps	Three areas on North Bank	--	No sheens observed. PAHs were ND		
Final EE/CA *(Windward, 2010a)*	Groundwater	MW-07 (9/23/10) (abandoned)	---	ND	0.028 J[e]	64 J[e]
LDW RI *(Windward, 2010b)*	Intertidal Seeps	None in vicinity; (closest location 44)	Not sampled	No sheen observed		
	Porewater Samples	None in vicinity	---	---	---	---

Notes:

a The EE/CA contains RvALs for other PAHs and phenol, but they are not shown here because there are no corresponding RALs

b 6-point composite sample of loose F-M sand between +3 to +7 ft MLLW elevation.

c Other analytes were detected in soils from the disposal pond above the MCTA Soil Cleanup Levels including heavy metals (arsenic, cadmium, chromium, copper, lead, mercury, and zinc), pesticides (DDT, aldrin, dieldrin), SVOCs, and VOCs.

d Not detected by NWTPH-HCID in soil at or above 20 mg/kg gas, 50 mg/kg diesel and detected above 250 mg/kg heavy oil. Not detected in water at or above 0.2 mg/L gas, 0.5 mg/L diesel and detected above 0.5 mg/L heavy oil. MW-3 detection limits are similar.

e Compound was not detected in previous samples dating back to 2008 in MW-07. MW-07 is the closest T-117 well to this area. It has since been abandoned and the soil removed.

All results shown in mg/kg dw or mg/L.

n/a = not analyzed; ND = non detect

DRO – Diesel Range Organics; GRO – Gasoline Range Organics; RRO – Residual Range Organics; SVOCs – semi volatile organic compounds; VOCs – volatile organic compounds

Table 2 - Summary of 2014 Marina Bank Soil Sample Results

Location:	Marina Bank		Marina Bank	
Sample ID:	Marina Bank-140306		Marina Bank-140317	
Description:	6-part soil composite collected along lower marina bank		6-part soil composite collected along lower marina bank	
Sample Date:	3/6/2014		3/17/2014	
Approximate Elevation:	+5 ft MLLW		+5 ft MLLW	
Matrix:	Soil		Soil	
Chemical	Conc	Qual	Conc	Qual
TPH (HCID) (mg/kg)				
Gasoline	<20	U	-	
Diesel	<50	U	-	
Heavy Oil	250	J	-	
TPH (NWTPH) (mg/kg)				
Gasoline	-		2.0	U
Diesel	-		520	J
Motor Oil	-		1500	
TPH	-		2000	J
PCBs (mg/kg)				
Aroclor 1221	0.020	U	0.020	U
Aroclor 1232	0.020	U	0.020	U
Aroclor 1016	0.020	U	0.020	U
Aroclor 1242	0.020	U	0.020	U
Aroclor 1248	0.020	U	0.020	U
Aroclor 1254	1.6		3.5	
Aroclor 1260	1.4		1.9	
Total PCBs	3.0		5.4	
Pesticides (mg/kg)**				
4,4´-DDE	-		0.0438	
Total DDTs	-		0.0438	
Aldrin	-		0.345	
Dieldrin	-		0.314	
gamma-Chlordane	-		0.0279	
Herbicides (mg/kg) **				
Metals (mg/kg)				
Cadmium	-		1	U
Chromium	-		24.2	
Lead	-		66.4	
Mercury	-		0.1	U
VOCs (mg/kg)**	-			
Dichloromethane (methylene chloride)	-		0.15	fb
Conventionals (%)				
Total organic carbon (TOC)	-		0.527	
% Moisture			16.0	

Notes:

*** Only detected Pesticides, Herbicides, and VOCs are included in this summary.*

na - not availiable

"-" not analyzed

U - not detected at the reported detection limit

J - estimated concentration

fb - analyte present in the blank and the sample

Table 3 - Summary of 2014 Marina Bank Water Sample Results

Location:	Marina Bank		Marina Bank	
Sample ID:	Marina Sheen-140306		North Bank Seep-140317**	
Description:	Sheen from water surface in vicinity of marina bank seep		Groundwater seep collected from the North Bank	
Sample Date:	3/6/2014		3/17/2014	
Approximate Elevation:	+2 ft MLLW		+7.3 ft MLLW	
Matrix:	Surface water		Groundwater seep	
Chemical	Conc	Qual	Conc	Qual
TPH (HCID) (mg/L)				
Gasoline	<0.2	U	-	
Diesel	<0.5	U	-	
Heavy Oil	0.5	J	-	
TPH (NWTPH) (mg/L)				
Gasoline	-		0.012	UJ
Diesel	-		0.11	J
Motor Oil	-		0.25	U
TPH	-		0.11	J
PCBs (µg/L)				
Aroclor 1221	-		0.010	UJ
Aroclor 1232	-		0.010	UJ
Aroclor 1016	-		0.010	UJ
Aroclor 1242	-		0.010	UJ
Aroclor 1248	-		0.010	UJ
Aroclor 1254	-		0.010	UJ
Aroclor 1260	-		0.062	
Total PCBs	-		0.062	
Pesticides (µg/L)* **				
Herbicides (µg/L)* **				
Metals (dissolved) (µg/L)				
Cadmium	-		1	U
Chromium	-		1.54	
Lead	-		1.02	
Mercury	-		0.1	U
VOCs (µg/L)* **	-			
Tetrachloroethene	-		0.22	
Conventionals (mg/L)				
Dissolved organic carbon (DOC)	-		4.47	
Total suspended solids (TSS)	-		68	

Notes:

*** NWTPH, PCBs, pesticides and herbicides were lab-filtered per EPA-approved SAP/QAPP protocols for the Duwamish.*

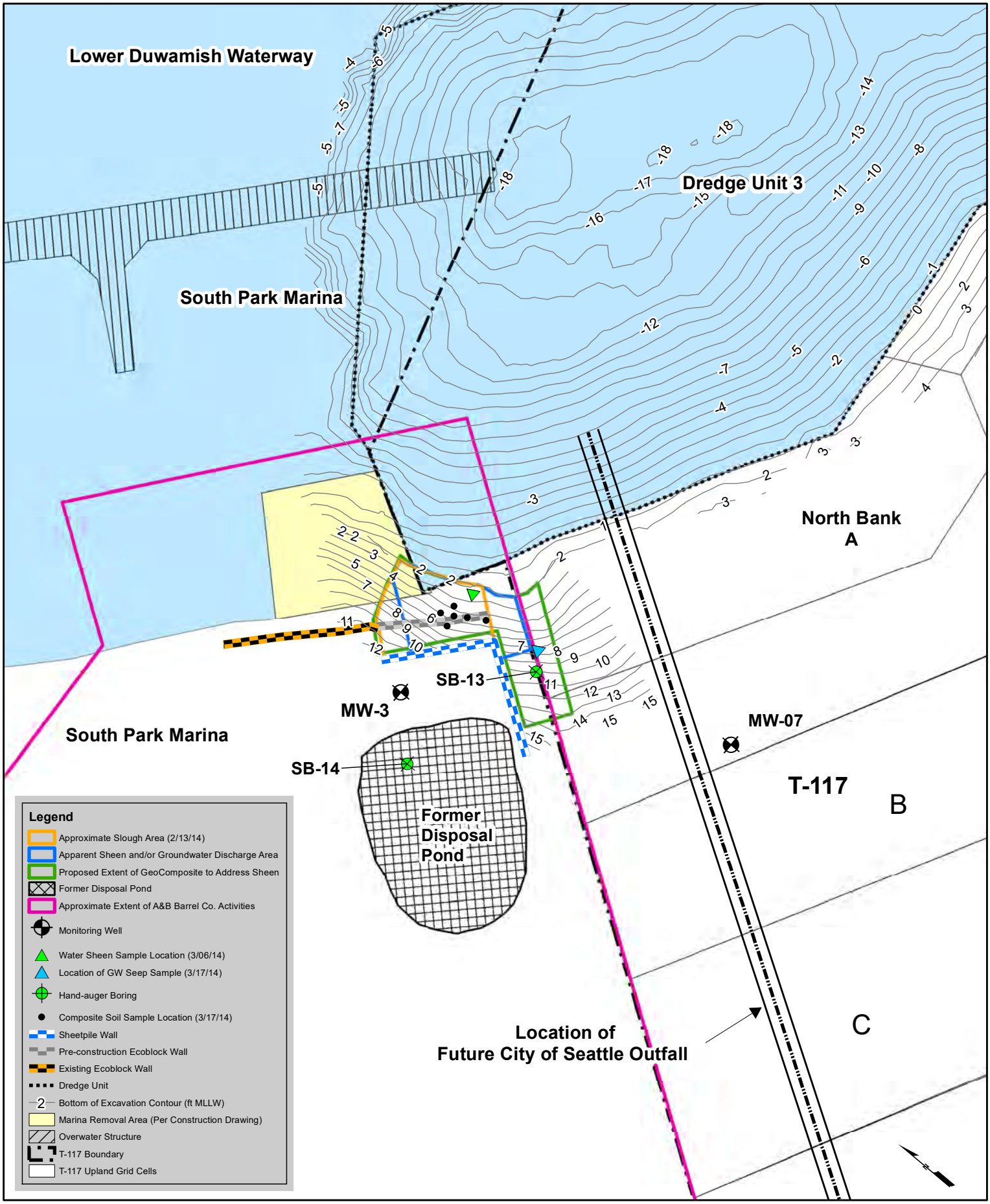
**** Only detected Pesticides, Herbicides, and VOCs are included in this summary.*

"-" not analyzed

U - not detected at the reported detection limit

J - estimated concentration

na - not available



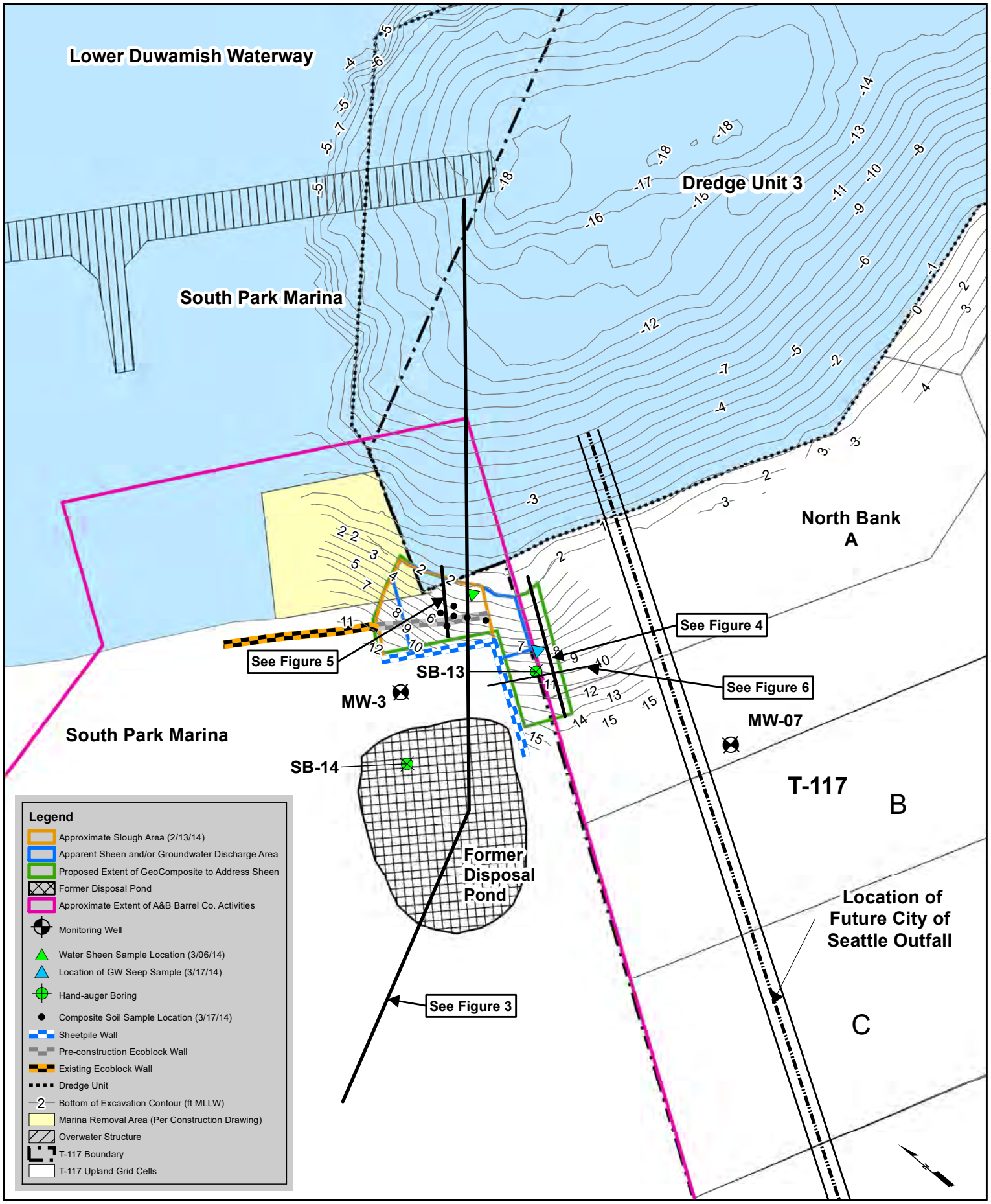
Notes:
1. Upland contours derived from 03/17/14 Port survey.
2. Bathymetric contours generated using E-Trac survey from 3/10/2014.
3. Soil bank composite and groundwater seep sampled 3/17/14.

AECOM

0 5 10 20 Feet

T-117 CLEANUP SEDIMENT AND UPLAND AREAS			MARINA BANK CORNER PLAN VIEW	
Date: 4/4/2014	DRWN:mvi/sea	Revision: 2	Project No: 6028925	FIGURE 1

Path: P:\ENV\PROJECTS\W\Port of Seattle\T-117 Cleanup Oversight\900-CAD-GIS\AECOM\MXD\Marina_Corner.mxd



Notes:
1. Upland contours derived from 03/17/14 Port survey.
2. Bathymetric contours generated using E-Trac survey from 3/10/2014.
3. Soil bank composite and groundwater seep sampled 3/17/14.

AECOM

0 5 10 20 Feet

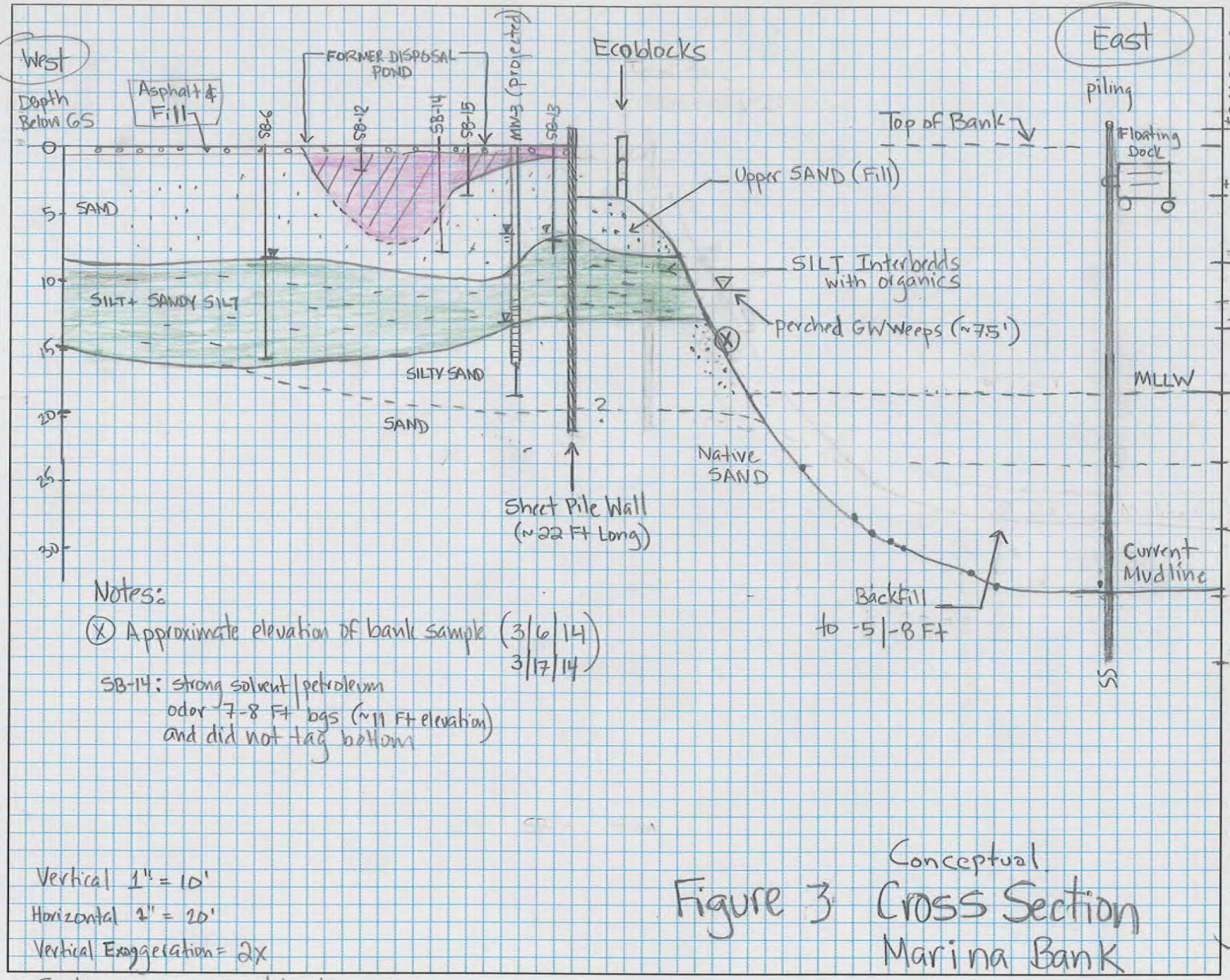
T-117 CLEANUP SEDIMENT AND UPLAND AREAS			MARINA BANK CORNER PLAN VIEW SHOWING SECTION LOCATIONS	
Date: 4/4/2014	DRWN:mvi/sea	Revision: 2	Project No: 6028925	FIGURE 2

Path: P:\ENV\PROJECTS\W\Port of Seattle\T-117 Cleanup Oversight\900-CAD-GIS\AECOM\MXD\Marina_CornerSectionLocations.mxd

JOB TITLE T117 - Marina Bank Cross Section
JOB NO. *60288935 CALCULATION NO. 3/8/14 Rev 3/11/14 w/ bathy
ORIGINATOR AUF DATE 3/8/14 Rev B 3/17/14 sheet pile wall
REVIEWER _____ DATE _____ SHEET NO. 1 OF 1
SCALE _____

AECOM

MLLW Elevation



Notes:

(X) Approximate elevation of bank sample (3/6/14) 3/17/14

SB-14: strong solvent/petroleum odor 7-8 Ft bgs (~11 Ft elevation) and did not tag bottom

Vertical 1" = 10'
Horizontal 1" = 20'
Vertical Exaggeration = 2x

~Scales are approximately drawn~

Conceptual

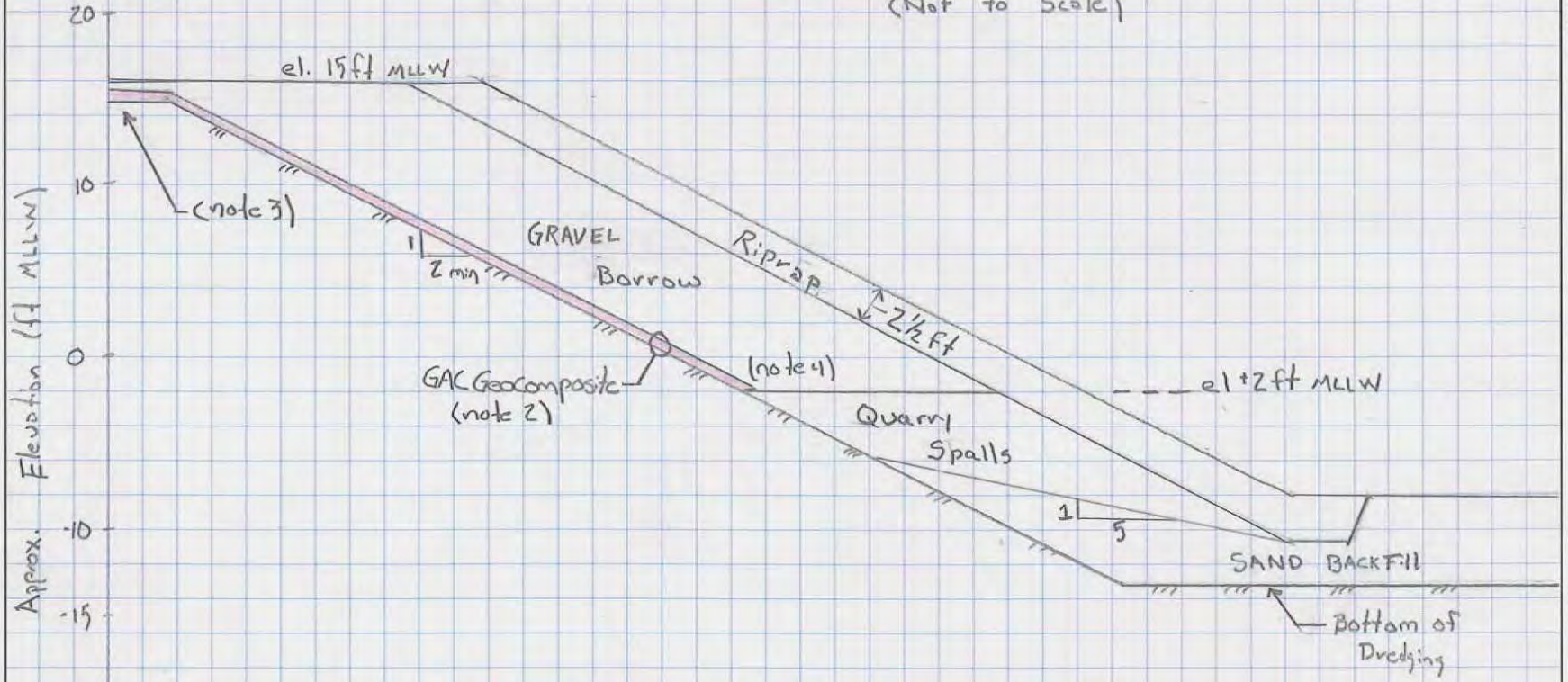
Figure 3 Cross Section
Marina Bank

JOB TITLE Terminal 117 NTCRA
JOB NO. 60288925 CALCULATION NO.
ORIGINATOR NJG DATE 3/14/2014
REVIEWER DATE
SCALE N.T.S SHEET NO. OF

AECOM

Grid: 5x5 = 1 in

Figure 4 - Conceptual Cross Section, North Bank (Not to Scale)



Notes

1) Backfill from "Typical Section of Quarry Spall Backfill" by Cvetc dated 2/7/2014.

2) Geo Composite shall extend as low as practical, min to el. +2 ft MLLW.

3) Geocomposite shall extend past the top of slope the minimum distance required for anchoring. Anchor at top of slope Per Detail 2, sheet C029 of the Project Plans.

4) Geocomposite anchored at toe by overburden, no trench needed.

AECOM

JOB TITLE T-117 NTCRA
JOB NO. 60288925
ORIGINATOR NTG
REVIEWER
SCALE 1" = 10' both directions

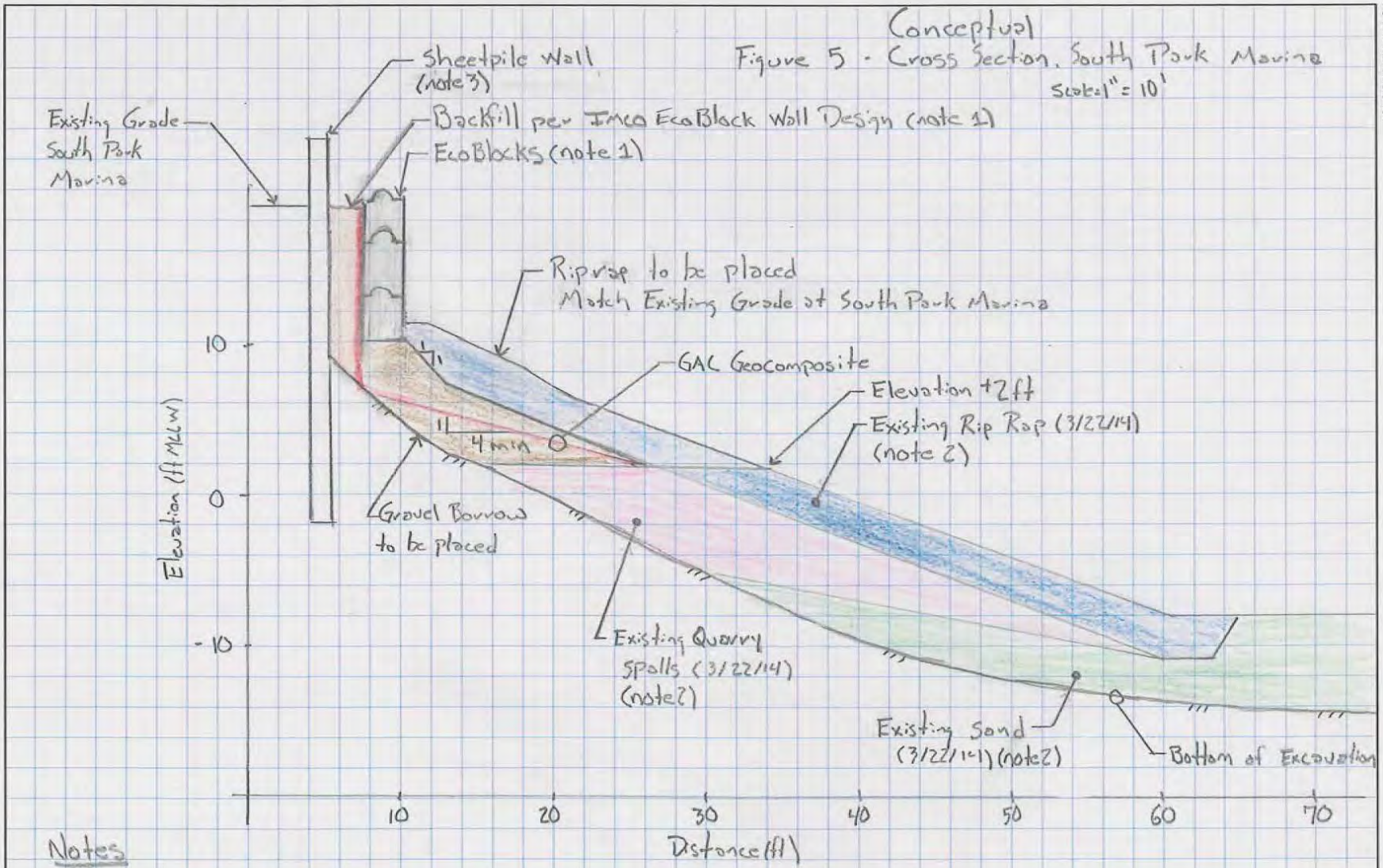
CALCULATION NO.
DATE 3/25/14, Rev 4/1/14
DATE
SHEET NO. OF

Grid: 5x5 = 1 in

Conceptual

Figure 5 - Cross Section, South Park Marina

Scale: 1" = 10'



Notes

1) Ecoblock wall to be designed by Inco. Design is pending

2) Bathymetric Survey showing extent of Backfill placed below +2ft MLLW (as of 3/22/14) not available. Estimated extent shown based on Project Plans.

3) Sheetpile wall to be Removed after Ecoblock wall Construction.

AECOM

JOB TITLE T117 NTCRA
JOB NO. 60288929 CALCULATION NO.
ORIGINATOR NJG DATE 4/2/14
REVIEWER DATE
SCALE NTS SHEET NO. OF

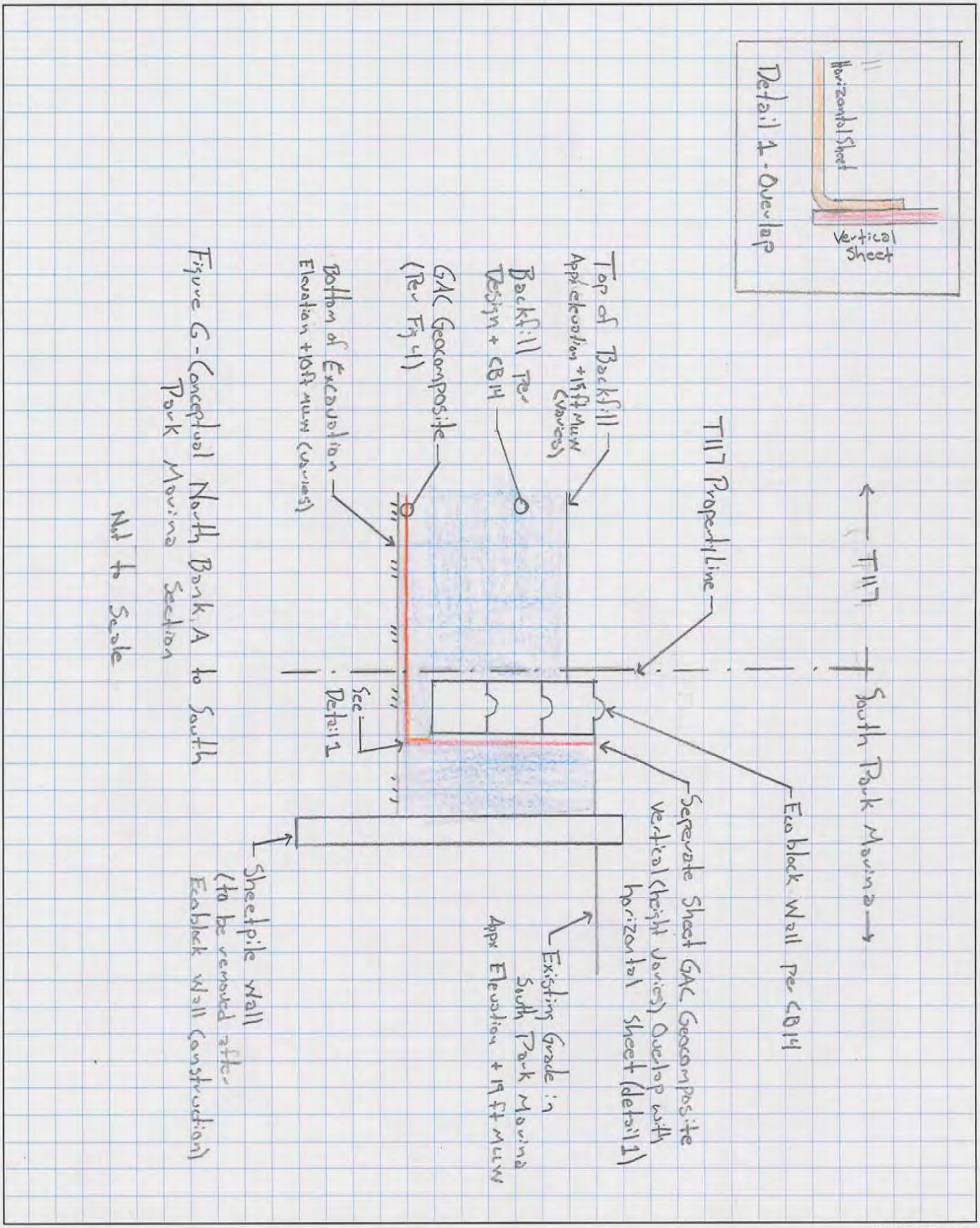


Figure G - Conceptual North Bank A to South Park Moving Section

Not to Scale

Grid: 5x5 = 1 in

ATTACHMENT 1 – PHOTOS OF OBSERVED SHEEN

Attachment 1 – Photos of Observed Sheen



Photo 1: Excavation of North Bank A at corner of South Park Marina, 1/4/14, 00:21 (source: AECOM)



Photo 2: Sheen in DU3 observed lingering near southeast corner of the South Park Marina looking south (sheet pile wall in foreground), 2/1/14, 16:11 (source: AECOM)

Attachment 1 – Photos of Observed Sheen

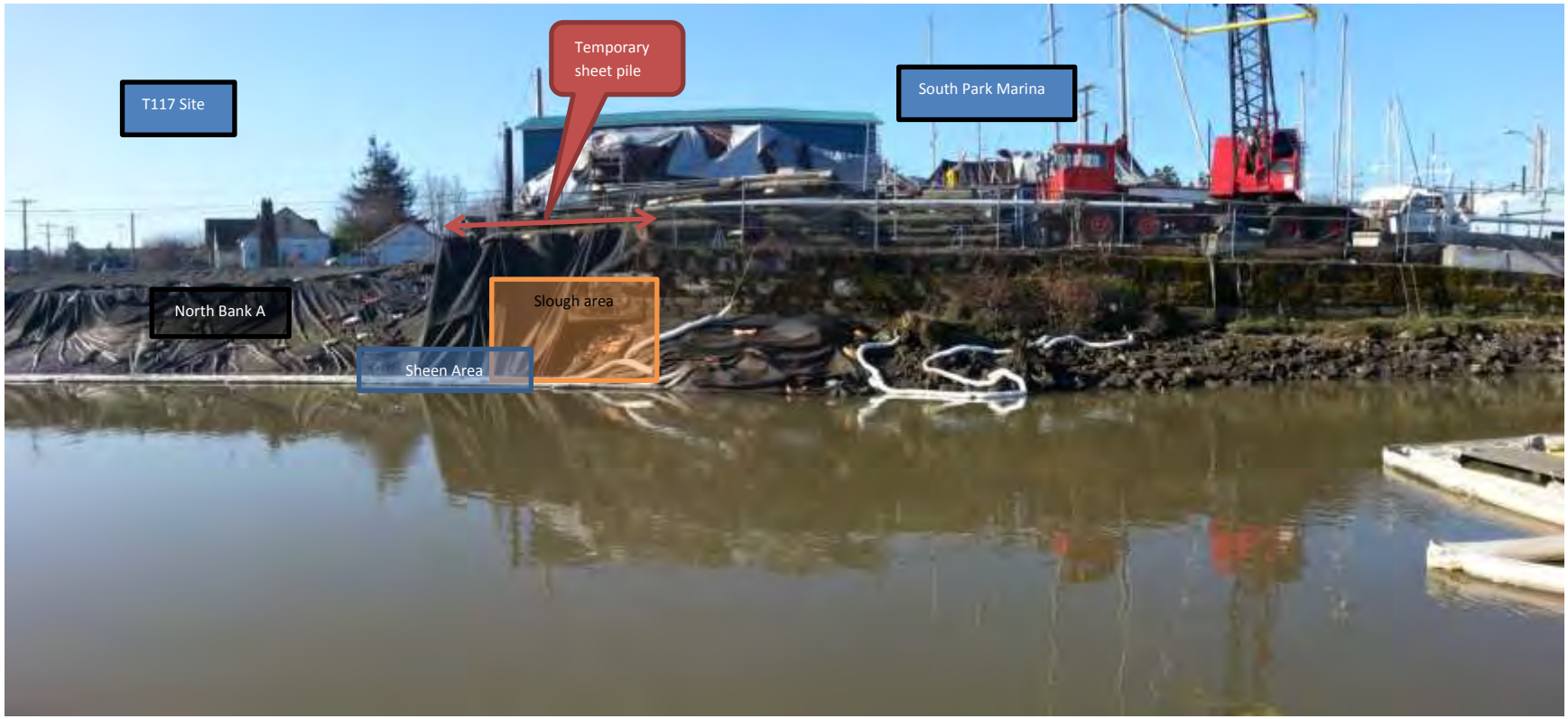


Photo 3: Sheen in DU3, photograph taken approximately 15 ft north of the southeast corner of the South Park Marina, looking east. 2/1/14, 14:37 (source: AECOM)



Photo 4: Sheen at base of sheet pile wall at the southeast corner of the South Park Marina, looking down, 2/21/14, 12:25 (AECOM)

ATTACHMENT 2 – PANORAMA OF NORTH BANK A AND THE SOUTH PARK MARINA



Attachment 2 – Panorama of North Bank A and the South Park Marina taken 3/12/14

ATTACHMENT 3 – MANUFACTURER PRODUCT DATA

FilterMat™ The Complete Choice.

FilterMat™ AC
activated carbon benefits

The primary benefits of HUESKER's **FilterMat™ AC** composite include:

- The use of smaller carbon particles, resulting in a higher adsorbent capacity,
- The combination of multiple layers of activated carbon types for targeting selective contaminates, and
- The creation of a controlled tortuous path for liquid flow through the functional particles.

These three features combine to give higher initial efficiencies, lower pressure drops, and greater adsorptive capacity than competitive technologies.

FilterMat™ AC's nonwoven structure maximizes access to the carbon adsorption surfaces. The bond between the bicomponent fiber and the carbon granule covers a very small portion of the surface. In fact, approximately 99% of the carbon's outer surface area is left open. These point bonds are sufficient to immobilize the particles within the nonwoven structure, eliminating shedding and dusting of particles downstream of the filter. Another feature of the nonwoven product is the creation of uniform void space between the granular particles. This creates a tortuous path for flow through the nonwoven medium, providing uniform access to the carbon granules at the same time that it lowers pressure drop. The void space is created by evenly distributing the carbon granules throughout the nonwoven in three dimensions.

Column studies that were conducted to simulate capping of contaminated sediments showed an added benefit created by the tortuous path through the 3-dimensional matrix is a reduction in "bypass". Bypass refers to situations where portions of the flow never come in contact with the functional particles.



This can happen for any filter when the carbon loading gets very low. However, the high pressure drop through packed particles and non-uniform packing in loose beds creates another path for liquid flow to travel preferentially through loosely packed sections or around the edges of the bed. This leads to higher velocities through portions of the bed while other sections are effectively bypassed by the liquid flow, increasing the initial breakthrough of the contaminant through the filter.

HUESKER's **FilterMat™ AC** standard roll size is 16 feet wide by 100 feet long for ease of installation. Custom roll lengths are available upon request. HUESKER's **FilterMat™ AC** is wrapped in heavy duty plastic for protection during shipping along with two lifting straps for ease of removal at the jobsite. **FilterMat™ AC** is typically shipped to the jobsite on flatbed trucks which allows easy unloading with slings or a lifting bar.

Deployment of HUESKER's **FilterMat™ AC** wide rolls can reduce the installation time and associated costs, and can be installed from the shoreline, from barges and marine vessels with the assistance of divers.

APPENDIX A.25

Well Report 102798

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy - Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

Application No. 25

Permit No. 2380

(1) **OWNER:** Name John Buchan Const. Co. Address 11555 North Up , Bellevue Wa. 98004

(2) **LOCATION OF WELL:** County King SE¼ SE¼ Sec. 29 T. 24 N., R. 4 W.M.

Bearing and distance from section or subdivision corner 25

(3) **PROPOSED USE:** Domestic ☐ Industrial ☐ Municipal ☐
Irrigation ☑ Test Well ☐ Other ☐

(4) **TYPE OF WORK:** Owner's number of well (if more than one)
New well ☑ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☑ Jetted ☐

(5) **DIMENSIONS:** Diameter of well 8 inches.
Drilled 280 ft. Depth of completed well 280 ft.

(6) **CONSTRUCTION DETAILS:**
Casing installed: 8 " Diam. from 0 ft. to 240 ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☑ " Diam. from ft. to ft.

Perforations: Yes ☑ No ☐
Type of perforator used CUT
SIZE of perforations in. by in.
perforations from 150 ft. to 170 ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☐ No ☑
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☑ Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes ☑ No ☐ To what depth? 18 ft.
Material used in seal Bentonite
Did any strata contain unusable water? Yes ☐ No ☑
Type of water? Depth of strata
Method of sealing strata off

(7) **PUMP:** Manufacturer's Name
Type: H.P.

(8) **WATER LEVELS:** Land-surface elevation above mean sea level ft.
Static level 140 ft. below top of well Date 8-5-85
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) **WELL TESTS:** Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☑ No ☐ If yes, by whom? Driller
Yield: 36.5 gal./min. with 2 ft. drawdown after 1 hrs.
" 36.5 " 3 " 24 "
" 36.5 " Max Pump — " "
Recovery data (time taken as zero when pump turned off) (water level taken as static water level)

Water Level	Time	Water Level
28' 11"	after 2 Min.	

ft. drawdown after hrs.
g.p.m. Date
Did any chemical analysis made? Yes ☐ No ☑

(10) **WELL LOG:**

Formation: *Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.*

MATERIAL	FROM	TO
Brown Clay	0	30
Blue Clay	30	48
Brown Clay Gravel	48	110
Blue Clay	110	120
Brown Clay Gravel	120	150
Blue Clay Gravel Water	150	170
Blue Clay	170	280

Work started 8-1-85 19 Completed 8-5-85 19

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME DAHLMAN PUMP & DRILLING INC (Person, firm, or corporation) (Type or print)

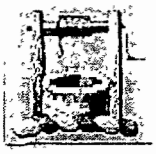
Address P O BOX 422 Burlington Wa. 98233

[Signed] H Ken Fowler (Well Driller)

License No. 1192 Date 8-6- , 19 85

(USE ADDITIONAL SHEETS IF NECESSARY)

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.



Well Report Change Form

IMPORTANT: GET AS MUCH INFORMATION AS POSSIBLE. THIS FORM WILL BE USED TO FIND THE WELL REPORT. ALL REQUIRED FIELDS MUST BE FILLED IN. USE INK PEN ONLY WHEN FILLING OUT THIS FORM.

(REQUIRED) This Well Report has been changed on (Date) ____/____/____

(Required) Person Requesting Change _____

(Required) Contact Phone No (____) _____

(REQUIRED) ☐ Not in NITS ☐ NITS Log ID# _____

Regional Office: ☐ CRO ☐ ERO ☐ NWRO ☐ SWRO

Well Type: ☐ Water Well ☐ Resource Protection Well

Notice of Intent # _____ Unique Ecy Well ID Tag No: _____

(Required) Original Owner Name: _____

Well Street Address: _____

City: _____ County: _____ Zip Code: _____

Geographic Location:

(Required) ____ 1/4 of the ____ 1/4 Section ____ Township ____ Range ____ EWM or WWM *(circle one)*

(Optional) Lat Degrees _____ Lat Time _____

Long Degrees _____ Long Time _____ Horizontal collection method code _____

Tax Parcel No (include all zeros and dashes): _____

Type of Work: ☐ New Well ☐ Reconditioned ☐ Deepened

Well Report Recvd Date: ____/____/____ Well Completed Date: ____/____/____

Well Diameter (in): _____ Well Depth (ft): _____ Other: _____

Driller License No: _____ Trainee License No: _____

Other (Specify): _____

(Required) Reason for Change _____

(Required) Tracker Signature: _____

Data Entry Error - Image recvd not changed.

Marsha Burns

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

APPENDIX B

Boring Logs

APPENDIX B.1

Historical Boring Logs

18912 North Creek Parkway, Suite 101
Bothell, WA 98011

Monitoring Well: MW-1

Project: South Park Marina
Client: Washington State Dept of Ecology
Location: Seattle, Washington
Logged By: S Bloom

Date Started: 9/26/2007
Date Completed: 9/27/2007
Driller: Cascade Drilling, Inc.
Drill Method: Hand Auger/Geoprobe

Total Boring Depth: 20 ft
Hole Diameter: 3 in.
Well Depth: 18 ft
TOC Elevation: 15.43 (msl) ft

Well Diameter: 0.75 in
Well Screen: 8-18 ft
Filter Pack: 2/12 & 20/40
Well Casing: Sch 40 PVC

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION	WELL DIAGRAM
						0	Asphalt surface	- Flush-mount well box Well cap
							Road base/rocks with fine to medium grained sand	
						1		
							(SP) Sand, fine to medium grained sand, very dark gray, damp, loose, no odor	- Cement seal
						2		
						3		
				SP		4		- Bentonite seal - Sch 40 PVC Riser
Damp	1.8					5	Well boring was hand cleared to 5 ft bgs	
Damp	1.5							
Damp	2.0					6	(ML) Silt, trace of fine grained sand, dark brown, damp, soft, no odor	
Damp	2.0					7	Grades to Sandy Silt at 9 feet - fine grained sand, dark brown, soft, no odor	
Damp	1.0			ML		8		
Damp	1.7		SB-1-9			9		
Saturated	1.8					10	(SP) Sand, medium to fine grained sand, very dark gray, saturated, loose, no odor	
Saturated	1.7					11		
Saturated	0.4					12		- 20/40 filter pre-pack & 2/12 around pre-pack
Saturated	1.5					13		- Pre-packed Sch 40 PVC 0.010-inch slotted screen
Saturated	1.4					14		
Saturated	1.3			SP		15		
						16		
						17		
Saturated	1.6					18		
Saturated	1.7					19		
Saturated	1.8					20	Bottom of borehole at 20.0 feet.	
						21		

SAIC From Science to Solutions
18912 North Creek Parkway, Suite 101
Bothell, WA 98011

Monitoring Well: MW-2

Project: South Park Marina
Client: Washington State Dept of Ecology
Location: Seattle, Washington
Logged By: S Bloom

Date Started: 9/26/2007
Date Completed: 9/28/2007
Driller: Cascade Drilling, Inc.
Drill Method: Hand Auger/Geoprobe

Total Boring Depth: 21 ft
Hole Diameter: 3 in.
Well Depth: 17 ft
TOC Elevation: 14.84 (msl) ft

Well Diameter: 0.75 in
Well Screen: 12-17 ft
Filter Pack: 2/12 & 20/40
Well Casing: Sch 40 PVC

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	U.S.C.S. SYMBOL	DEPTH (ft)	LITHOLOGY/DESCRIPTION
					0	Road base/rocks with fine to medium grained sand
Damp	1.7			SP	1	(SP) Sand, fine to medium grained, very dark gray, damp, no odor
Damp	2.7				2	
Damp	2.6				3	
Damp	2.4				4	
Damp	3.3				5	Well boring hand cleared to 5 ft bgs
Damp	0.6				6	
Damp	0.9				7	(ML) Sandy Silt, fine grained sand, very dark gray to very dark brown, damp, very soft/loose, no odor
Saturated	0.9			ML	8	Encountered water table at 8 ft bgs
			SB-2-9		9	
Saturated	0.4				10	
Saturated	0.6			ML	11	(ML) Silt, very dark gray, soft, no odor, some pieces of organic material (roots/wood)
Saturated	0.5				12	(ML) Sandy Silt, very fine to fine grained sand, very dark brown to dark gray, loose/soft, no odor
Saturated	0.3				13	
Saturated	0.4			ML	14	
Saturated	0.2				15	
Saturated	0.5			SM	16	(SM) Silty Sand, fine to medium grained sand, very dark gray, no odor
					17	(ML) Sandy Silt, fine grained sand, very dark gray, no odor
Saturated	0.1			ML	18	
Saturated	0.0				19	
Saturated	0.1				20	
					21	Bottom of borehole at 21.0 feet.
					22	

WELL DIAGRAM

- Flush-mount well box
- Well cap
- Cement seal
- Bentonite seal
- Sch 40PVC Riser
- 20/40 filter pre-pack & 2/12 around pre-pack
- Pre-packed Sch 40 PVC 0.010-inch slotted screen

18912 North Creek Parkway, Suite 101
Bothell, WA 98011

Monitoring Well: MW-3

Project: South Park Marina
Client: Washington State Dept of Ecology
Location: Seattle, Washington
Logged By: S Bloom

Date Started: 9/26/2007
Date Completed: 9/27/2007
Driller: Cascade Drilling, Inc.
Drill Method: Hand Auger/Geoprobe

Total Boring Depth: 20 ft
Hole Diameter: 3 in.
Well Depth: 17.25 ft
TOC Elevation: 14.91 (msl) ft

Well Diameter: 0.75 in
Well Screen: 12.25-17.25 ft
Filter Pack: 2/12/ & 20/40
Well Casing: Sch 40 PVC

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	U.S.C.S. SYMBOL	DEPTH (ft)	LITHOLOGY/DESCRIPTION
					0	Road base/rocks with fine to medium grained sand
Dry	0.8				1	(SP) Sand, fine to medium grained, very dark gray, damp, loose, no odor
Damp	0.7				2	
Damp	0.9				3	
Damp	0.4				4	Grades to medium grained sand
Damp	0.5			SP	5	Well Boring hand cleared to 5 ft bgs
					6	
Saturated	2.0				7	Encountered water table at 6.5 ft bgs
Saturated	1.9		SB-3-7		8	
Saturated	1.6				9	
Saturated	2.1				10	(ML) Sandy Silt, fine grained sand, very dark gray, soft, no odor
Wet	1.7			ML	11	(ML) Silt, very dark gray, stiff, no odor, some organics (wood pieces)
Wet	2.2			ML	12	
Wet	1.8				13	(ML) Sandy Silt, fine to very fine grained sand, dark brown, loose, no odor
Wet	2.2		SB-3-13.5	ML	14	(SM) Silty Sand, fine grained sand, very dark gray, loose, no odor
Wet	2.0				15	Grain size changes to medium grained. Becomes meduim dense at 15 ft bgs
Wet	2.2				16	
Wet	0.9			SM	17	
					18	
Wet	1.0				19	
					20	Bottom of borehole at 20.0 feet.
					21	

WELL DIAGRAM

- Flush-mount well box
- Well cap
- Cement seal
- Bentonite seal
- 20/40 filter pre-pack & 2/12 around pre-pack
- Pre-packed Sch 40 PVC 0.010-inch slotted screen

18912 North Creek Parkway, Suite 101
Bothell, WA 98011

Boring: SB-4

Project: South Park Marina
Client: Washington State Dept of Ecology
Location: Seattle, Washington

Logged By: S Bloom
Date Started: 9/27/2007
Date Completed: 9/27/2007

Driller: Cascade Drilling, Inc.
Drill Method: Hand Auger/Geoprobe
Total Boring Depth: 20 ft

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION
						0	Asphalt
							Road base/rocks, with fine to medium grained sand
						1	(SP) Sand, fine to medium grained, very dark gray, damp, loose, no odor
						2	
						3	
						4	
Damp	1.2			SP		5	Boring was hand cleared to 5 ft bgs
Damp	1.0					6	
Damp	1.6					7	
Damp	2.3					8	
Damp	2.5		SB-4-8			9	Encountered water table at 9 ft bgs
Saturated	2.5			ML		10	(ML) Sandy Silt, fine grained sand, olive gray, saturated, very soft, no odor
Saturated	2.7			ML			(ML) Silt, olive gray, grades from soft to firm, no odor
Saturated	0.7					11	(ML) Sandy Silt, fine to very fine grained sand, dark brown, very soft, no odor
Saturated	1.2			ML		12	Color changes to dark gray
Saturated	2.0					13	
Saturated	2.3					14	(SP) Sand, fine to medium grained sand, dark brown to dark gray, soft, no odor
Saturated	1.3			SP		15	
Saturated	2.2					16	
Saturated	2.0			SM		17	(SM) Silty Sand, fine to medium grained sand, very dark brown, loose, no odor
Saturated	2.0					18	(SP) Sand, fine to medium grained sand, very dark gray, loose, no odor.
Saturated	1.5			SP		19	
						20	Bottom of borehole at 20.0 feet.
						21	

18912 North Creek Parkway, Suite 101
Bothell, WA 98011

Boring: SB-5

Project: South Park Marina
Client: Washington State Dept of Ecology
Location: Seattle, Washington

Logged By: S Bloom
Date Started: 9/27/2007
Date Completed: 9/27/2007

Driller: Cascade Drilling, Inc.
Drill Method: Hand Auger/Geoprobe
Total Boring Depth: 16 ft

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION
						0	Asphalt
							Road base/rocks, fine to medium grained SAND, damp, loose, no odor
						1	(SP) Sand, fine to medium grained, damp, loose, no odor
						2	
						3	
						4	
Damp	1.4			SP		5	Boring was hand cleared to 5 ft bgs
						6	
						7	
Damp	0.7						
Saturated	1.8		SB-5-8			8	Encountered water table at 8 ft bgs
						9	
Saturated	1.8						(ML) Silt, very dark gray, very soft, no odor; saturated
Saturated	1.7			ML		10	Becomes firm
						11	
	1.4						(SM) Silty Sand, fine to medium grained sand, dark brown, loose, no odor
Saturated	2.0					12	
						13	
Saturated	1.1			SM			
						14	
	1.9						
						15	
Saturated	1.5						
						16	Bottom of borehole at 16.0 feet.
						17	
						18	

18912 North Creek Parkway, Suite 101
Bothell, WA 98011

Boring: SB-6

Project: South Park Marina
Client: Washington State Dept of Ecology
Location: Seattle, Washington

Logged By: S Bloom
Date Started: 9/26/2007
Date Completed: 9/28/2007

Driller: Cascade Drilling, Inc.
Drill Method: Hand Auger/Geoprobe
Total Boring Depth: 17 ft

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION
						0	Asphalt
							Road base/rocks with fine to medium grained sand, very dark gray
Damp	1.2					1	(SP) Sand, fine to medium grained, very dark gray, damp, very loose, no odor
Damp	0.4					2	
Damp	1.1					3	
Damp	1.2					4	Density increases to loose
Damp	1.7			SP		5	Boring was hand cleared to 5 ft bgs
Damp	0.6						
Damp	0.8					6	
Damp	0.7					7	
			SB-6-8			8	
						9	(ML) Sandy Silt, fine to very fine grained sand, very dark gray, damp, no odor
Saturated	1.0			ML		10	(ML) Silt, very dark gray, soft to medium stiff (density increases with depth), no odor, some organic material (wood pieces)
Saturated	1.0						
Saturated	1.2			ML		11	
Saturated	1.2					12	
						13	(ML) Sandy Silt, fine to very fine grained sand, very dark gray
						14	
Saturated	1.5			ML		15	Color changes to very dark brown
Saturated	1.1						
Saturated	1.1					16	
						17	Bottom of borehole at 17.0 feet.
						18	
						19	

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Boring: SB-7

Project: South Park Marina
Client: Washington State Dept of Ecology
Location: Seattle, Washington

Logged By: S Bloom
Date Started: 9/28/2007
Date Completed: 9/28/2007

Driller: Cascade Drilling, Inc.
Drill Method: Hand Auger/Geoprobe
Total Boring Depth: 17 ft

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION
						0	Asphalt
						0	Road base/rocks, with fine to medium grained sand
						1	(SP) Sand, fine to medium grained, very dark gray, loose, no odor
Damp	0.9			SP		3	
Damp	0.9					5	Boring was hand cleared to 5 ft bgs Sand grades to fine grained
Damp	1.4					6	
Damp	1.5					7	(SM) Silty Sand, fine to medium grained sand, very dark brown to very dark gray, loose, no odor
Saturated	1.6					8	Encountered the water table at 8 ft bgs
Saturated	1.4		SB-7-9	SM		9	
Saturated	1.3					10	
Saturated	1.5					11	(ML) Silt, very dark gray, soft, no odor, some organic material (wood pieces)
Saturated	1.6			ML		12	Becomes firm (ML) Sandy Silt, very fine to medium grained sand, very dark gray, no odor
Wet	1.6			ML		15	
Wet	1.5					16	Color changes to very dark brown
Wet	1.3					17	Bottom of borehole at 17.0 feet.

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Boring: SB-8

Project: South Park Marina
Client: Washington State Dept of Ecology
Location: Seattle, Washington

Logged By: S Bloom
Date Started: 9/26/2007
Date Completed: 9/27/2007

Driller: Cascade Drilling, Inc.
Drill Method: Hand Auger/Geoprobe
Total Boring Depth: 16 ft

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION
						0	Asphalt
							Road base/rocks, with fine to medium grained sand, very dark gray
	0.0					1	(SP) Sand, fine to medium grained sand, very dark gray, damp, loose, no odor
						2	
Damp	0.0					3	
Damp	0.0					4	
Damp	0.1			SP		5	Boring was hand cleared down to 5 ft bgs
Damp	1.5						
Damp	1.5					6	
Damp	1.7					7	Color changes to dark brown
Damp	0.9					8	
Saturated	1.2		SB-8-9	ML		9	(ML) Sandy Silt, fine to very fine grained sand, very dark gray, very soft, no odor
Saturated	1.0					10	(ML) Silt, very dark gray, soft, no odor, some organic material (wood pieces)
Wet	1.0					11	
						12	
				ML		13	
Wet	0.9						
Wet	1.4					14	Becomes stiff
Wet	1.2			SP		15	(SP) Sand, fine to medium grained, very dark gray, loose, no odor
						16	Bottom of borehole at 16.0 feet.
						17	
						18	

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Boring: SB-9

Project: South Park Marina
Client: Washington State Dept of Ecology
Location: Seattle, Washington

Logged By: S Bloom
Date Started: 9/26/2007
Date Completed: 9/27/2007

Driller: Cascade Drilling, Inc.
Drill Method: Hand Auger/Geoprobe
Total Boring Depth: 20 ft

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION
						0	Asphalt
							Road base/rocks, fine to medium grained sand
	0.0					1	(SP) Sand, fine to medium grained, very dark gray, damp, very loose, no odor
Damp	0.0					2	
						3	
Damp	0.0					4	Becomes loose
Damp	0.0					5	Boring was hand cleared to 5 ft bgs
Damp	0.2			SP		6	
						7	Color changes to dark olive gray
						8	
						9	
Damp	0.5					10	
Damp	0.6		SB-9-10			11	Color changes to dark olive brown
Saturated	0.4						(ML) Sandy Silt, very fine grained sand, dark gray, saturated, no odor
Saturated	0.8					12	
Saturated	0.5			ML		13	
Saturated	0.8					14	
Wet	0.7			ML		15	(ML) Silt, dark gray, no odor, some organic material (wood pieces)
						16	(ML) Sandy Silt, very fine grained sand, dark gray, saturated, no odor
						17	
Wet	1.1			ML		18	
Wet	1.0					19	
Wet	1.0			ML			(ML) Silt, light brown, saturated, soft, no odor, some organic material (wood pieces) Color changes to dark gray
						20	Bottom of borehole at 20.0 feet.
						21	

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Boring: SB-10

Project: South Park Marina
Client: Washington State Dept of Ecology
Location: Seattle, Washington

Logged By: S Bloom
Date Started: 9/26/2007
Date Completed: 9/28/2007

Driller: Cascade Drilling, Inc.
Drill Method: Hand Auger/Geoprobe
Total Boring Depth: 20 ft

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION
						0	Asphalt
							Road base/rocks, fine to medium grained sand, very dark gray
Damp	0.3					1	(SP) Sand, fine to medium grained, very dark gray, very loose, no odor
Damp	0.2					2	
Damp	0.6			SP		3	
Damp	1.6					4	Becomes loose
Damp	1.4					5	Boring was hand cleared to 5 ft bgs
Damp	1.3			SM		6	(SM) Silty Sand, fine grained sand, very dark gray, loose, no odor
Damp	1.3			ML		7	(ML) Silt, very dark brown
Damp	1.1			SM		8	(SM) Sandy Silt, very dark gray
						9	(ML) Silt, very dark gray, soft, grades to medium stiff, no odor
Damp	1.0					10	
Saturated	1.1					11	Encountered water table at 11 ft bgs
Saturated	1.0					12	
Saturated	1.8			ML		13	Color changes to brown
Saturated	1.7		SB-10-14			14	
Wet	1.7					15	
Wet	1.5					16	
Wet	1.4					17	
Wet	1.5					18	(ML) Sandy Silt, fine to very fine grained sand, very dark gray, loose/soft, no odor
Wet	1.6			ML		19	Color changes to very dark brown
						20	Bottom of borehole at 20.0 feet.
						21	

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Boring: SB-11

Project: South Park Marina
Client: Washington State Dept of Ecology
Location: Seattle, Washington

Logged By: T Dube
Date Started: 9/28/2007
Date Completed: 9/28/2007

Driller: --
Drill Method: Hand Auger
Total Boring Depth: 2.75 ft

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION
	78 88 65		SB-11-2.5	SM		1 2 3 4 5 6 7	(SM) Sand, fine to coarse grained with some silt and gravel (up to 6" in size), brown-gray, damp, dense, waste debris (bolts, wood pieces, tubing, etc.) FILL Strong odor observed (Solvent/Fuel) from 1.5 to 2.5 ft Strong sheen observed at 2 ft Refusal at 2.75 ft on rock This boring was attempted twice - the first boring was done one foot away from second location. The first boring was advanced to 2 ft bgs. The second boring was advanced to a total depth of 2.75 ft bgs. Bottom of borehole at 2.8 feet.

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Boring: SB-12

Project: South Park Marina
Client: Washington State Dept of Ecology
Location: Seattle, Washington

Logged By: T Dube
Date Started: 9/28/2007
Date Completed: 9/28/2007

Driller: --
Drill Method: Hand Auger
Total Boring Depth: 2 ft

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION
				GP			(GP) Gravel up to 3/4" in size, gray-brown, loose, no odor. FILL
	1.5						(SM) Sand, fine to coarse grained, some silt and gravel (up to 5" in size), dark brown, damp, dense.
	3.9					1	Waste debris. FILL
	23.9			SM			
	8.2		SB-12-1.5				Moderate odor observed between 1-2 ft bgs (solvent/fuel)
	33.9					2	Weak to moderate sheen at 2 ft
						3	Refusal at 2 ft bgs on rock Bottom of borehole at 2.0 feet.
						4	
						5	
						6	
						7	

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Boring: SB-13

Project: South Park Marina
Client: Washington State Dept of Ecology
Location: Seattle, Washington

Logged By: S Bloom
Date Started: 10/1/2007
Date Completed: 10/1/2007

Driller: --
Drill Method: Hand Auger
Total Boring Depth: 7.5 ft

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION
				GP		0	(GP) Sandy gravel wiht cobbles and waste debris. (FILL)
Damp	0.8		SB-13-1			1	(SM) Sand, very fine to medium grained sand, some silt, very dark gray, damp, loose, no odor
						2	
						3	
Damp	0.6		SB-13-3.5	SM		4	
Damp	0.6					5	
Damp	0.4					6	
Saturated	0.8		SB-13-7	ML		7	(ML) Sandy Silt, very fine to fine grained sand, very dark gray, saturated, soft/loose, no odor Encountered water table at 7 ft bgs
							Bottom of borehole at 7.5 feet.
						8	
						9	
						10	

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Boring: SB-14

Project: South Park Marina
Client: Washington State Dept of Ecology
Location: Seattle, Washington

Logged By: T Dube
Date Started: 10/1/2007
Date Completed: 10/1/2007

Driller: --
Drill Method: Hand Auger
Total Boring Depth: 8 ft

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION
				GP		0	(GP) Sandy Gravel, gravel up to 1/2", gray-brown, damp, no odor, loose. FILL
				ML		1	(ML) Gravelly Silt, gravel up to 3", gray-brown, moist, dense, no odor, some waste debris. FILL
Moist	0.6					2	(SP) Sand, fine to medium grained sand, trace silt and fine gravel (to 0.25 inch), gray-brown, damp, no odor
Moist	0.9						
Moist	0.9		SB-14-3			3	
						4	
				SP			
Moist	0.7					5	Sand becomes slight coarser
Moist	1.0					6	
Moist	55					7	Strong solvent/petroleum odor and heavy sheen at 7 to 8 ft bgs
Saturated	15/23.7		SB-14-7.5				Encountered water table at 7.5 ft bgs
						8	Bottom of borehole at 8.0 feet.
						9	
						10	

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Boring: SB-15

Project: South Park Marina
Client: Washington State Dept of Ecology
Location: Seattle, Washington

Logged By: T Dube
Date Started: 10/1/2007
Date Completed: 10/1/2007

Driller: --
Drill Method: Hand Auger
Total Boring Depth: 4 ft

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION
				GP		0	(GP) Sandy Gravel, gravel up to 3/4" big, gray-brown, damp, no odor. FILL
				ML		1	(ML) Gravelly Silt, gravel up to 6", some medium grained sand, gray-brown, very moist, stiff, no odor, some waste debris. FILL
Very Moist	1.0					2	(SP) Sand, fine to medium grained, minor silt and gravel (up to 1"), gray-brown, very moist to wet, loose, slight solvent/petroleum odor
Very Moist	2.2			SP		3	
Saturated	36						Solvent/petroleum odor observed
Saturated	42		SB-15-3.5				Encountered water table at 3.25 ft bgs (after completion water level measured at 2.8 ft); dense below 3.5 ft
						4	Bottom of borehole at 4.0 feet.
						5	
						6	
						7	

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Bothell, WA 98011

Boring: SB-16

Project: South Park Marina
Client: Washington State Dept of Ecology
Location: Seattle, Washington

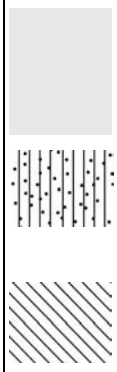
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Date Started: 10/1/2007
Date Completed: 10/1/2007

Driller: --
Drill Method: Hand Auger
Total Boring Depth: 4 ft

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION
				GP		0	(GP) Sandy gravel, gravel up to 3/4", gray-brown, damp, loose, no odor. FILL
						1	(ML) Gravelly Silt, gravel is up to 3.5", some sand, gray-brown, damp, stiff, some waste debris (wire, nails, etc), FILL
Moist	2.1						Faint odor observed at 1.25', increasing with depth to moderate odor at 4 ft bgs
							Subtle sheen at 1.5 ft bgs.
	23					2	
Moist	12			ML			
	95						Moderate sheen 2.5 to 4 ft bgs
	164					3	
Moist	171		SB-16-3.5				
						4	Refusal on rock at 4 ft bgs Bottom of borehole at 4.0 feet.
						5	
						6	
						7	

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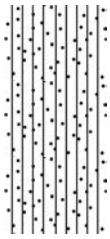
Client:	South Park Marina Limited Partnership	**Boring ID**	B-01
Project Name and No.:	South Park Marina – PCB Data Gaps Investigation – 2017.0376 Task 13.2		
Project Location:	8604 Dallas Avenue South, Seattle WA 98108		
Logged by:	Sabine Datum	**Reviewed by:**	Audrey Hackett/Philip Spadaro
Drilling Start Date:	11/17/2017	**Drilling End Date:**	11/17/2017
Horizontal Location (Datum):	1275087.291	**Water Depth at Time of Drilling:**	NE
Vertical Location (Datum):	195772.3085	**Water Depth After Completion:**	NE
Surface Conditions:	5/8" minus gravel		

Depth (ft bgs)	Interval (ft)	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Detail/ Water Depth
1 2 3 4 5	0–5	NA	65	0.5 0.6	B-01-2-3 B-01-3.5-4.5	SM/GM SP		0–2 ft: No recovery 2–3.5 ft: Brown to greenish gray gravelly fine SAND/sandy fine GRAVEL; with silt (Fill); dry to moist; very minor sheen 3.5–5 ft: Brown fine SAND, trace silt; dry to moist	
6 7 8 9 10	5–10	NA	70	0.1 1.3 0.1	B-01-5-6 B-01-8.5-9.5	SP SP-SM CL		Brown fine SAND, trace silt; 2-in grey silty layer with hydrocarbon odor and sheen above an orange seam at 8 ft 7 in; Grey fine SAND, trace silt; 0.5-in gray silt layer at 9.5 ft overlying brown and orange fine to medium SILT with hydrocarbon odor and oil sheen; 2-in CLAY layer at the bottom of the sampler with hydrocarbon odor	
								Bottom of boring: 10 ft bgs	

Drilling Co./Driller:	Holt Services Inc.; Michael Running	**Well/Auger Diameter:**	NA
Drilling Equipment/ Rig Model:	Geoprobe 7822 DT	**Boring Diameter**	2 in
Drilling Method/ Sampler Type:	Direct-Push	**Well Screened Interval:**	NA
Hammer Type/Weight:	NA	**Screen Slot Size:**	NA
Total Boring Depth:	10 ft bgs	**Filter Pack Used:**	NA
Backfill:	Bentonite	**Surface Seal:**	NA
Total Well Depth:	NA	**Annular Seal:**	NA
State Well ID No.:	NA	**Monument Type:**	NA

Notes/Comments:
bgs: below ground surface
NA: not applicable
NE: not encountered
PID: photoionization detector
ppmv: parts per million volume
USCS: United Soil Classification System

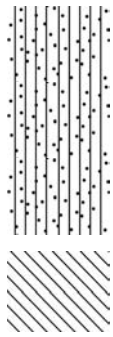
Client:	South Park Marina Limited Partnership	**Boring ID**	B-02
Project Name and No.:	South Park Marina – PCB Data Gaps Investigation – 2017.0376 Task 13.2		
Project Location:	8604 Dallas Avenue South, Seattle WA 98108		
Logged by:	Sabine Datum	**Reviewed by:**	Audrey Hackett/Philip Spadaro
Drilling Start Date:	11/17/2017	**Drilling End Date:**	11/17/2017
Horizontal Location (Datum):	1275100.52	**Water Depth at Time of Drilling:**	NE
Vertical Location (Datum):	195768.592	**Water Depth After Completion:**	NE
Surface Conditions:	5/8" minus gravel		

Depth (ft bgs)	Interval (ft)	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Detail/ Water Depth
1 2 3 4 5	0–5	NA	70	0.5 3.4	B-02-2.5-3	GM SP SP		Brown sandy fine to medium GRAVEL with silt (Fill); orange coloration at 2 ft; 2 ft–2 ft 9 in: brown SAND, trace silt; dry to moist; Brown to dark gray SAND, trace fine gravel; dry to moist; heavy oil sheen 2.5–3 ft	
6 7 8 9 10	5–10	NA	70	40.1 19.6	B-02-5.5-6 B-02-6.5-7	SM		Dark gray silty SAND; wood at 6 ft; strong hydrocarbon odor and heavy oil sheen throughout and below 6.5 ft; dry to moist; 6.5–10 ft: same as above, moist	
								Bottom of boring: 10 ft bgs	

Drilling Co./Driller:	Holt Services Inc.; Michael Running	**Well/Auger Diameter:**	NA
Drilling Equipment/ Rig Model:	Geoprobe 7822 DT	**Boring Diameter**	2 in
Drilling Method/ Sampler Type:	Direct-Push	**Well Screened Interval:**	NA
Hammer Type/Weight:	NA	**Screen Slot Size:**	NA
Total Boring Depth:	10 ft bgs	**Filter Pack Used:**	NA
Backfill:	Bentonite	**Surface Seal:**	NA
Total Well Depth:	NA	**Annular Seal:**	NA
State Well ID No.:	NA	**Monument Type:**	NA

Notes/Comments:
bgs: below ground surface
NA: not applicable
NE: not encountered
PID: photoionization detector
ppmv: parts per million volume
USCS: United Soil Classification System

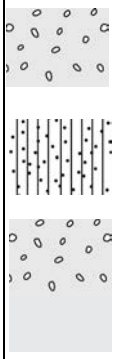
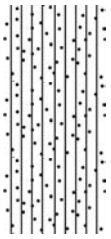
Client:	South Park Marina Limited Partnership	**Boring ID**	B-03
Project Name and No.:	South Park Marina – PCB Data Gaps Investigation – 2017.0376 Task 13.2		
Project Location:	8604 Dallas Avenue South, Seattle WA 98108		
Logged by:	Sabine Datum	**Reviewed by:**	Audrey Hackett/Philip Spadaro
Drilling Start Date:	11/17/2017	**Drilling End Date:**	11/17/2017
Horizontal Location (Datum):	1275086.34	**Water Depth at Time of Drilling:**	NE
Vertical Location (Datum):	195754.2348	**Water Depth After Completion:**	NE
Surface Conditions:	5/8" minus gravel		

Depth (ft bgs)	Interval (ft)	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Detail/ Water Depth
1 2 3 4 5	0–5	NA	60	0.2 1.0	B-03-0-1 B-03-2-3	GW-GP		Brown to light gray sandy, fine to medium GRAVEL (Fill); decreasing sand content toward bottom; dry to moist; slight oil sheen 0–1 ft	
6 7 8 9 10	5–10	NA	50	7.2 0.2	B-03-5-6 B-03-6.5-7	SM SM CL		3 in of dark gray w/reddish brown silty fine to coarse SAND with fine gravel; dry to moist; gravel lense at 5 ft 7 in; brown to gray silty SAND below 6 ft; moist below 6.5 ft; alternating light and dark brown laminations from 6 to 6.5 ft; 2 in of gray CLAY at bottom; hydrocarbon odor and heavy sheen throughout interval; metal pieces in sampler shoe	
								Bottom of boring: 10 ft bgs	

Drilling Co./Driller:	Holt Services Inc.; Michael Running	**Well/Auger Diameter:**	NA
Drilling Equipment/ Rig Model:	Geoprobe 7822 DT	**Boring Diameter**	2 in
Drilling Method/ Sampler Type:	Direct-Push	**Well Screened Interval:**	NA
Hammer Type/Weight:	NA	**Screen Slot Size:**	NA
Total Boring Depth:	10 ft bgs	**Filter Pack Used:**	NA
Backfill:	Bentonite	**Surface Seal:**	NA
Total Well Depth:	NA	**Annular Seal:**	NA
State Well ID No.:	NA	**Monument Type:**	NA
Notes/Comments:	bgs: below ground surface NA: not applicable NE: not encountered	PID: photoionization detector ppmv: parts per million volume USCS: United Soil Classification System	

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Client:	South Park Marina Limited Partnership	**Boring ID**	B-04
Project Name and No.:	South Park Marina – PCB Data Gaps Investigation – 2017.0376 Task 13.2		
Project Location:	8604 Dallas Avenue South, Seattle WA 98108		
Logged by:	Sabine Datum	**Reviewed by:**	Audrey Hackett/Philip Spadaro
Drilling Start Date:	11/17/2017	**Drilling End Date:**	11/17/2017
Horizontal Location (Datum):	1275091.934	**Water Depth at Time of Drilling:**	NE
Vertical Location (Datum):	195695.2371	**Water Depth After Completion:**	NE
Surface Conditions:	5/8" minus gravel		

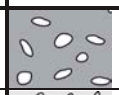
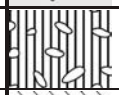
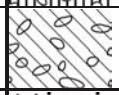
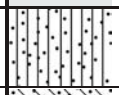
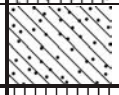
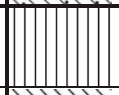
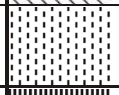
Depth (ft bgs)	Interval (ft)	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Detail/ Water Depth
1 2 3 4 5	0–5	NA	50	0.0 31.1	B-01-2-3 B-01-3.5-4.5	GP SM GP/SP		0–10 in: Reddish brown fine GRAVEL with sand (Fill); dry to moist; moderate sheen; 10 in–1.5 ft: Brown to reddish brown silty fine SAND (potential Fill); dry to moist; heavy sheen; 1.5 ft–2 ft 4 in: Reddish brown to gray gravelly SAND/sandy GRAVEL (Fill); dry to moist	
6 7 8 9 10	5–10	NA	50	29.5 47.8	B-01-5-6 B-01-8.5-9.5	SM		Gray silty fine SAND, trace fine to medium gravel; orange-brown layer at 6 ft 7in to 9 in; dry to moist; moist to slightly wet below 6.5 ft; heavy sheen and strong hydrocarbon odor	
								Bottom of boring: 10 ft bgs	

Drilling Co./Driller:	Holt Services Inc.; Michael Running	**Well/Auger Diameter:**	NA
Drilling Equipment/ Rig Model:	Geoprobe 7822 DT	**Boring Diameter**	2 in
Drilling Method/ Sampler Type:	Direct-Push	**Well Screened Interval:**	NA
Hammer Type/Weight:	NA	**Screen Slot Size:**	NA
Total Boring Depth:	10 ft bgs	**Filter Pack Used:**	NA
Backfill:	Bentonite	**Surface Seal:**	NA
Total Well Depth:	NA	**Annular Seal:**	NA
State Well ID No.:	NA	**Monument Type:**	NA

Notes/Comments:
bgs: below ground surface
NA: not applicable
NE: not encountered
PID: photoionization detector
ppmv: parts per million volume
USCS: United Soil Classification System

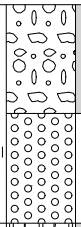
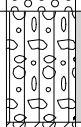
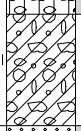
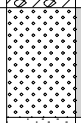
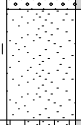
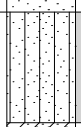
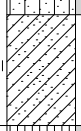
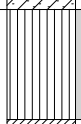
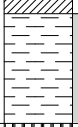
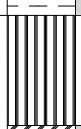
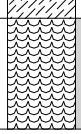
TIG environmental™
INVESTIGATIONS ▾ FORENSICS ▾ REMEDIATION

Unified Soil Classification System Key

Primary Divisions			Group Symbol	Graphic	Descriptions
Coarse grained soils More than 50% of material is larger than no. 2 sieve	Gravels More than 60% of coarse fraction retained on no. 4 sieve	Clean gravels Little or no fines	GW		Well-graded gravels, gravel-sand mixtures, little or no fines
			GP		Poorly graded gravels, gravel-sand mixtures, little or no fines
		Gravels with fines Appreciable amount of fines	GM		Silty gravels, gravel-sand-silt mixtures
			GC		Clayey gravels, gravel-sand-clay mixtures
	Sands More than 50% of coarse fraction passing no. 4 sieve	Clean sands Less than 5% fines	SW		Well-graded sands, gravelly sands, little or no fines
			SP		Poorly graded sands, gravelly sands, little or no fines
		Sands with fines Appreciable amount of fines	SM		Silty sands, sand-silt mixtures
			SC		Clayey sands, sand-clay mixtures
Fine grained soils More than 50% of material is smaller than no. 200 sieve size	Silts and clays Liquid limit less than 50%		ML		Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity
			CL		Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, or lean clays
			OL		Organic silts and organic silty clays of low plasticity
	Silts and clays Liquid limit greater than 50%		MH		Inorganic silts, micaceous or diatomaceous fine sand or silty soils
			CH		Inorganic clays of high plasticity, fat clays
			OH		Organic clays of medium to high plasticity, organic silts
Highly organic soils			PT		Peat, humus, swamp soils with high organic contents

APPENDIX B.2

Remedial Investigation Boring Logs (under Agreed Order)

Coarse-Grained Soils - More than 50%[1] Retained on No. 200 Sieve	Gravels - More than 50%[1] of Coarse Fraction Retained on No. 4 Sieve	≤5% Fines		GW	Well-graded GRAVEL Well-graded GRAVEL WITH SAND
				GP	Poorly-graded GRAVEL Poorly-graded GRAVEL WITH SAND
		≥15% Fines		GM	SILTY GRAVEL SILTY GRAVEL WITH SAND
				GC	CLAYEY GRAVEL CLAYEY GRAVEL WITH SAND
	Sands - 50%[1] or More of Coarse Fraction Passes No. 4 Sieve	≤5% Fines		SW	Well-graded SAND Well-graded SAND WITH GRAVEL
				SP	Poorly-graded SAND Poorly-graded SAND WITH GRAVEL
		≥15% Fines		SM	SILTY SAND SILTY SAND WITH GRAVEL
				SC	CLAYEY SAND CLAYEY SAND WITH GRAVEL
Fine-Grained Soils - 50%[1] or More Passes No. 200 Sieve	Silts and Clays Liquid Limit Less than 50%			ML	SILT SANDY or GRAVELLY SILT SILT WITH SAND SILT WITH GRAVEL
				CL	LEAN CLAY SANDY or GRAVELLY LEAN CLAY LEAN CLAY WITH SAND LEAN CLAY WITH GRAVEL
				OL	ORGANIC SILT SANDY or GRAVELLY ORGANIC SILT ORGANIC SILT WITH SAND ORGANIC SILT WITH GRAVEL
	Silts and Clays Liquid Limit 50% or More			MH	ELASTIC SILT SANDY or GRAVELLY ELASTIC SILT ELASTIC SILT WITH SAND ELASTIC SILT WITH GRAVEL
				CH	FAT CLAY SANDY or GRAVELLY FAT CLAY FAT CLAY WITH SAND FAT CLAY WITH GRAVEL
				OH	ORGANIC CLAY SANDY or GRAVELLY ORGANIC CLAY ORGANIC CLAY WITH SAND ORGANIC CLAY WITH GRAVEL
Highly Organic Soils				PT	PEAT and other mostly organic soils

"WITH SILT" or "WITH CLAY" means 5 to 15% silt and clay, denoted by a "-" in the group name; e.g., SP-SM • "SILTY" or "CLAYEY" means >15% silt and clay • "WITH SAND" or "WITH GRAVEL" means 15 to 30% sand and gravel. • "SANDY" or "GRAVELLY" means >30% sand and gravel. • "Well-graded" means approximately equal amounts of fine to coarse grain sizes • "Poorly graded" means unequal amounts of grain sizes • Group names separated by "/" means soil contains layers of the two soil types; e.g., SM/ML.

Soils were described and identified in the field in general accordance with the methods described in ASTM D2488. Where indicated in the log, soils were classified using ASTM D2487 or other laboratory tests as appropriate. Refer to the report accompanying these exploration logs for details.

1. Estimated or measured percentage by dry weight
2. (SPT) Standard Penetration Test (ASTM D1586)
3. Determined by SPT, DCPT (ASTM STP399) or other field methods. See report text for details.

GEOTECHNICAL LAB TESTS

MC	=	Natural Moisture Content
PS	=	Particle Size Distribution
FC	=	Fines Content (% < 0.075 mm)
GH	=	Hydrometer Test
AL	=	Atterberg Limits
C	=	Consolidation Test
Str	=	Strength Test
OC	=	Organic Content (% Loss by Ignition)
Comp	=	Proctor Test
K	=	Hydraulic Conductivity Test
SG	=	Specific Gravity Test

CHEMICAL LAB TESTS

Organic Chemicals

BTEX	=	Benzene, Toluene, Ethylbenzene, Xylenes
TPH-Dx	=	Diesel and Oil-Range Petroleum Hydrocarbons
TPH-G	=	Gasoline-Range Petroleum Hydrocarbons
VOCs	=	Volatile Organic Compounds
SVOCs	=	Semi-Volatile Organic Compounds
PAHs	=	Polycyclic Aromatic Hydrocarbon Compounds
PCBs	=	Polychlorinated Biphenyls

Metals

RCRA8	=	As, Ba, Cd, Cr, Pb, Hg, Se, Ag, (d = dissolved, t = total)
MTCA5	=	As, Cd, Cr, Hg, Pb (d = dissolved, t = total)
PP-13	=	Ag, As, Be, Cd, Cr, Cu, Hg, Ni, Pb, Sb, Se, Tl, Zn (d=dissolved, t=total)

FIELD TESTS

PID	=	Photoionization Detector
Sheen	=	Oil Sheen Test
SPT[2]	=	Standard Penetration Test
NSPT	=	Non-Standard Penetration Test
DCPT	=	Dynamic Cone Penetration Test

COMPONENT DEFINITIONS

Descriptive Term		*Size Range and Sieve Number*
Boulders	=	Larger than 12 inches
Cobbles	=	3 inches to 12 inches
Coarse Gravel	=	3 inches to 3/4 inches
Fine Gravel	=	3/4 inches to No. 4 (4.75 mm)
Coarse Sand	=	No. 4 (4.75 mm) to No. 10 (2.00 mm)
Medium Sand	=	No. 10 (2.00 mm) to No. 40 (0.425 mm)
Fine Sand	=	No. 40 (0.425 mm) to No. 200 (0.075 mm)
Silt and Clay	=	Smaller than No. 200 (0.075 mm)

ESTIMATED[1] PERCENTAGE

% by Weight		*Modifier*	*% by Weight*		*Modifier*
<1	=	Subtrace	15 to 25	=	Little
1 to <5	=	Trace	30 to 45	=	Some
5 to 10	=	Few	>50	=	Mostly

MOISTURE CONTENT

Dry	=	Absence of moisture, dusty, dry to the touch
Slightly Moist	=	Perceptible moisture
Moist	=	Damp but no visible water
Very Moist	=	Water visible but not free draining
Wet	=	Visible free water, usually from below water table

RELATIVE DENSITY

Non-Cohesive or Coarse-Grained Soils

Density[3]		*SPT*[2] *Blows/Foot*	*Penetration with 1/2" Diameter Rod*
Very Loose	=	0 to 4	≥ 2'
Loose	=	5 to 10	1' to 2'
Medium Dense	=	11 to 30	3" to 1'
Dense	=	31 to 50	1" to 3"
Very Dense	=	> 50	< 1"

CONSISTENCY

Cohesive or Fine-Grained Soils

Consistency[3]		*SPT*[2] *Blows/Foot*	*Manual Test*
Very Soft	=	0 to 1	Penetrated >1" easily by thumb. Extrudes between thumb & fingers.
Soft	=	2 to 4	Penetrated 1/4" to 1" easily by thumb. Easily molded.
Medium Stiff	=	5 to 8	Penetrated >1/4" with effort by thumb. Molded with strong pressure.
Stiff	=	9 to 15	Indented ~1/4" with effort by thumb.
Very Stiff	=	16 to 30	Indented easily by thumbnail.
Hard	=	> 30	Indented with difficulty by thumbnail.

GEOLOGIC CONTACTS

Observed and Distinct — Observed and Gradual — Inferred

Aspect CONSULTING

Exploration Log Key

AI Path: Q:_ACAD Standards\FIELD REFERENCE\MASTERS\Exploration Log Key-2018.ai // user: jinman // last saved: 12/31/2018

Aspect CONSULTING	South Park Marina - 190293		Environmental Exploration Log	
	Project Address & Site Specific Location 8604 Dallas Avenue South, Seattle, WA, 98108, Near T-117 property line in SW corner		*Coordinates (SPN NAD83 ft)* E:1275047 N:195671 (est)	*Exploration Number* **HA-01**
Contractor Aspect	*Equipment* Hand Auger	*Sampling Method* Grab	*Ground Surface Elev. (NAVD88)* 20.1' (est)	
Operator David Unruh	*Exploration Method(s)* Hand tools	*Work Start/Completion Dates* 3/11/2021	*Top of Casing Elev. (NAVD88)* NA	*Depth to Water (Below GS)* No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
0	20	Surface restored with surface soils		HA-1-0-1 *	PID=0 Sheen=Slight		Surface cover: vegetated gravel base course, ~0.2 feet **FILL** GRAVEL WITH SAND (GP); appears loose, moist, brown, fine to coarse, subrounded gravel; fine- to medium-grained, subangular sand; no odor; slight sheen appears less dense than water.	0
1	19			HA-1-1-2	PID=0.3 Sheen=None		SAND WITH SILT (SP-SM); appears loose, moist, brown, fine- to medium-grained, subangular sand; low plasticity fines; trace fine, subrounded gravel; no odor. Becomes very moist	1
2	18	Boring backfilled with 3/8-in hydrated bentonite chips, NSF 60.		HA-1-2-3 *	PID=0.4 Sheen=None			2
3	17						Bottom of exploration at 3 ft. bgs. Note: * - Sample submitted to laboratory for analysis. Remaining samples preserved and submitted to laboratory for archival pending results.	3
4	16							4

Legend

Sample Type
- No Soil Sample Recovery
- Continuous core 3" ID
- Grab sample

Water Level
- No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: David Unruh
Approved by: AJY

Exploration Log HA-01
Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\190293_SOUTH_PARK_MARINA.GPJ August 26, 2024

Aspect CONSULTING	South Park Marina - 190293		Environmental Exploration Log	
	Project Address & Site Specific Location 8604 Dallas Avenue South, Seattle, WA, 98108, Near Central portion of T-117 property line		*Coordinates (SPN NAD83 ft)* E:1275076 N:195717 (est)	*Exploration Number* **HA-02**
Contractor Aspect	*Equipment* Hand Auger	*Sampling Method* Grab	*Ground Surface Elev. (NAVD88)* 18' (est)	
Operator David Unruh	*Exploration Method(s)* Hand tools	*Work Start/Completion Dates* 3/11/2021	*Top of Casing Elev. (NAVD88)* NA	*Depth to Water (Below GS)* No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
					PID=0.4 Sheen=Organic		Surface cover: vegetated gravel base course, ~0.2 feet **FILL** SAND WITH SILT (SP-SM); appears loose, moist, dark brown, fine to medium, subangular sand; low plasticity fines; little live roots and silt-sized organic debris; no odor.	
		Surface restored with surface soils		HA-2-0-1 *			WOODY DEBRIS; appears loose, moist, dark brown, charcoal and wood debris; slight mulch-like odor; blocky organic sheen.	
1	17				PID=0.3 Sheen=Organic		SAND WITH SILT (SP-SM); appears loose, moist, dark brown, fine- to coarse-grained, subangular sand; low plasticity fines; no odor.	1
				HA-2-1-2			Sheen appeared biogenic: waxy, discontinuous sheets	
2	16	Boring backfilled with 3/8-in hydrated bentonite chips, NSF 60.			PID=0.3 Sheen=None			2
				HA-2-2-3 *				
3	15						Bottom of exploration at 3 ft. bgs. Note: * - Sample submitted to laboratory for analysis. Remaining samples preserved and submitted to laboratory for archival pending results.	3
4	14							4

Legend

Sample Type
- No Soil Sample Recovery
- Continuous core 3" ID
- Grab sample

Water Level
- No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: David Unruh
Approved by: AJY

Exploration Log HA-02
Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\190293_SOUTH_PARK_MARINA.GPJ August 26, 2024

Aspect CONSULTING	South Park Marina - 190293		Environmental Exploration Log	
	Project Address & Site Specific Location: 8604 Dallas Avenue South, Seattle, WA, 98108, SW of East Residential Structure		Coordinates (SPN NAD83 ft): E:1274811 N:195837 (est)	Exploration Number: **HA-03**
Contractor: Aspect	Equipment: Hand Auger	Sampling Method: Grab	Ground Surface Elev. (NAVD88): 16.3' (est)	
Operator: David Mackay	Exploration Method(s): Hand tools	Work Start/Completion Dates: 9/20/2022	Top of Casing Elev. (NAVD88): NA	Depth to Water (Below GS): No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
0	16	Surface restored with paver sand and surface soils.					Surface cover: gravel and base course, ~0.3 feet	0
							FILL	
				HA-03-0-1	PID=0.6 Sheen=None		SAND WITH SILT AND GRAVEL (SP-SM); slightly moist, dark brown; fine to coarse sand; fine to coarse, subrounded to subangular gravel; trace wood fragments; no chemical-like odor.	
1	15						SAND WITH SILT (SP-SM); slightly moist, dark gray; fine to medium sand; trace red sand; no chemical-like odor.	1
					PID=0.5 Sheen=None			
2	14							2
		Boring backfilled with 3/8in bentonite chips and hydrated.		HA-03-2-3	PID=0.3 Sheen=None			
3	13						Bottom of exploration at 3 ft. bgs.	3
4	12							4
5	11							5
6	10							6
7	9							7
8	8							8
9	7							9

Legend

Sample Type
- ◯ No Soil Sample Recovery
- ▮▯ Continuous core 3" ID
- ☑ Grab sample

Water Level
- No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DJM
Approved by: AJY

Exploration Log HA-03
Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\190293_SOUTH_PARK_MARINA.GPJ August 26, 2024

South Park Marina - 190293

Environmental Exploration Log

Aspect CONSULTING

Project Address & Site Specific Location	Coordinates (SPN NAD83 ft)	Exploration Number
8604 Dallas Avenue South, Seattle, WA, 98108, W of West Residential Structure	E:1274668 N:195847 (est)	**HA-04**

Contractor	Equipment	Sampling Method	Ground Surface Elev. (NAVD88)	
Aspect	Hand Auger	Grab	16.8' (est)	
Operator	**Exploration Method(s)**	**Work Start/Completion Dates**	**Top of Casing Elev. (NAVD88)**	**Depth to Water (Below GS)**
David Mackay	Hand tools	9/20/2022	NA	No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
0	16	Surface restored with paver sand and surface soils.		HA-04-0-1	PID=0.4 Sheen=None		Surface cover: gravel base course, ~0.1 feet **FILL** SAND WITH SILT (SP-SM); slightly moist, dark brown; fine to medium sand; trace gravel; trace red medium sand; trace wood fragments; no chemical-like odor.	0
1								1
	15				PID=0.4 Sheen=None		Becomes moist, dark gray, and without trace gravel.	
2								2
	14	Boring backfilled with 3/8-in hydrated bentonite chips, NSF 60.		HA-04-2-3	PID=0.5 Sheen=None			
3							Bottom of exploration at 3 ft. bgs.	3
4	13							4
5	12							5
6	11							6
7	10							7
8	9							8
9	8							9
	7							

Legend

Sample Type
- ◯ No Soil Sample Recovery
- ▮▯ Continuous core 3" ID
- ☑ Grab sample

Water Level
- No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DJM
Approved by: AJY

Exploration Log HA-04

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\190293_SOUTH_PARK_MARINA.GPJ August 26, 2024

South Park Marina - 190293

Environmental Exploration Log

Project Address & Site Specific Location: 8604 Dallas Avenue South, Seattle, WA, 98108, E of Restrooms		Coordinates (SPN NAD83 ft): E:1274815 N:195977 (est)	Exploration Number: **HA-05**
Contractor: Aspect	Equipment: Hand Auger	Sampling Method: Grab	Ground Surface Elev. (NAVD88): 13.6' (est)
Operator: David Mackay	Exploration Method(s): Hand tools	Work Start/Completion Dates: 9/20/2022	Top of Casing Elev. (NAVD88): NA
			Depth to Water (Below GS): No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
0	13	Surface restored with paver sand and surface soils.		HA-05-0-1	PID=0.2 Sheen=None		Surface cover: asphalt and gravel base course, ~0.5 feet **FILL** SAND WITH SILT AND GRAVEL (SP-SM); slightly moist, dark brown; fine to coarse sand; fine to coarse gravel; trace 1/8-in wood fragments; no chemical-like odor.	0
1	12				PID=0.2 Sheen=None		SAND WITH SILT (SP-SM); slightly moist, dark brown; fine to medium sand; trace red medium sand; no chemical-like odor.	1
2	11	Boring backfilled with 3/8-in hydrated bentonite chips, NSF 60.		HA-05-2-3	PID=0.2 Sheen=None			2
3	10						Bottom of exploration at 3.1 ft. bgs.	3
4	9							4
5	8							5
6	7							6
7	6							7
8	5							8
9	4							9

Legend

Sample Type
- ◯ No Soil Sample Recovery
- ▮▯ Continuous core 3" ID
- ☑ Grab sample

Water Level
- No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DJM
Approved by: AJY

Exploration Log HA-05
Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\190293_SOUTH_PARK_MARINA.GPJ August 26, 2024

South Park Marina - 190293

Environmental Exploration Log

Aspect CONSULTING

Project Address & Site Specific Location	Coordinates (SPN NAD83 ft)	Exploration Number
8604 Dallas Avenue South, Seattle, WA, 98108, NW of Restrooms	E:1274707 N:196005 (est)	**HA-06**

Contractor	Equipment	Sampling Method	Ground Surface Elev. (NAVD88)	
Aspect	Hand Auger	Grab	13.5' (est)	
Operator	**Exploration Method(s)**	**Work Start/Completion Dates**	**Top of Casing Elev. (NAVD88)**	**Depth to Water (Below GS)**
David Mackay	Hand tools	9/20/2022	NA	No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
0	13	Surface restored with paver sand and surface soils.		HA-06-0-1	PID=0.2 Sheen=None		Surface cover: gravel base course, ~0.3 feet **FILL** SAND WITH SILT AND GRAVEL (SP-SM); slightly moist, dark brown; fine to coarse sand; fine to coarse, subrounded to subangular gravel; trace wood fragments; no chemical-like odor.	0
1	12				PID=0.2 Sheen=Slight		SAND WITH SILT (SP-SM); slightly moist, dark brown; fine to medium sand; trace subrounded gravel; trace red medium sand; no chemical-like odor observed; slight platy sheen.	1
2	11	Boring backfilled with 3/8-in hydrated bentonite chips, NSF 60.		HA-06-2-3	PID=0.3 Sheen=None		Becomes dark gray.	2
3	10						Bottom of exploration at 3 ft. bgs.	3
4	9							4
5	8							5
6	7							6
7	6							7
8	5							8
9	4							9

Legend

Sample Type
- ◯ No Soil Sample Recovery
- ▮▯ Continuous core 3" ID
- Grab sample

Water Level
- No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DJM
Approved by: AJY

Exploration Log HA-06
Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\190293_SOUTH_PARK_MARINA.GPJ August 26, 2024

South Park Marina - 190293

Environmental Exploration Log

Aspect CONSULTING

Project Address & Site Specific Location	Coordinates (SPN NAD83 ft)	Exploration Number
8604 Dallas Avenue South, Seattle, WA, 98108, N of North Resedential Structure	E:1274680 N:196120 (est)	**HA-07**

Contractor	Equipment	Sampling Method	Ground Surface Elev. (NAVD88)	
Aspect	Hand Auger	Grab	15.7' (est)	
Operator	**Exploration Method(s)**	**Work Start/Completion Dates**	**Top of Casing Elev. (NAVD88)**	**Depth to Water (Below GS)**
David Mackay	Hand tools	9/20/2022	NA	No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
0	15	Surface restored with paver sand and surface soils.		HA-07-0-1	PID=0.3 Sheen=None		Surface cover: gravel base course, ~0.3 feet **FILL** SILTY SAND WITH GRAVEL (SM); slightly moist, dark brown; little silt; fine to medium sand; little, fine to coarse, subrounded gravel; trace wood fragments; no chemical-like odor.	0
1								1
	14				PID=0.2 Sheen=None		SILTY SAND (SM); slightly moist, dark brown to gray; little silt; fine to medium sand; trace red medium sand; no chemical-like odor.	
2								2
	13	Boring backfilled with 3/8-in hydrated bentonite chips, NSF 60.		HA-07-2-3	PID=0.2 Sheen=None			
3							Bottom of exploration at 3.1 ft. bgs.	3
	12							
4								4
	11							
5								5
	10							
6								6
	9							
7								7
	8							
8								8
	7							
9								9
	6							

Legend

Sample Type
- No Soil Sample Recovery
- Continuous core 3" ID
- Grab sample

Water Level
- No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DJM
Approved by: AJY

Exploration Log HA-07

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\190293_SOUTH_PARK_MARINA.GPJ August 26, 2024

South Park Marina - 190293

Monitoring Well Log

Aspect CONSULTING

Project Address & Site Specific Location	Coordinates (SPN NAD83 ft)	Exploration Number
8604 Dallas Avenue South, Seattle, WA, 98108, SE corner of site west of inferred edge of settling pond	E:1275105.6 N:195754.7	**MW-04**

Contractor	Equipment	Sampling Method	Ground Surface Elev. (NAVD88)	Ecology Well Tag No.
Holt	Geoprobe 7800	Percussion hammer	15.48'	BND 370
Operator	**Exploration Method(s)**	**Work Start/Completion Dates**	**Top of Casing Elev. (NAVD88)**	**Depth to Water (Below GS)**
Cody	Direct push	3/4/2021	15.02'	7.59' (Static)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
		8-in flush mount monument set in concrete					Surface cover: vegetated gravel base course, ~0.2 feet	
				MW-4-0-1 *	PID=0.9 Sheen=Slight		**FILL** SAND WITH GRAVEL (SP); appears loose, moist, grey-brown, fine- to medium-grained, subangular sand; fine to coarse, subangular gravel; trace fines; trace brick and charcoal fragments <2 inches in size, very slight chemical-like odor.	
		3/8-in hydrated bentonite chip seal, NSF 60			PID=1 Sheen=Slight			
5	10	2-in, threaded schedule 40 PVC well casing		MW-4-4-5	PID=0.6 Sheen=Moderate		SAND (SP); appears loose, moist, grey-brown, fine- to medium-grained, subangular sand; trace fines; no chemical-like odor. Consolidated fragments of light brown silty sand; trace coarse-grained sand.	5
		3/4/2021 3/12/2021						
		10-20 silica sand filter pack		MW-4-7-8 *	PID=19 Sheen=Heavy		SILTY SAND (SM); appears loose, wet, grey, fine- to medium-grained, subangular sand; low to medium plasticity fines; moderate chemical-like odor, heavy iridescent sheen.	
10	5	2-in, prepacked 0.010-in (10-slot) slotted schedule 40 PVC screen					Heavy iridescent sheen appears to be denser than water.	10
				MW-4-10.5-11.5 *	PID=18 Sheen=Heavy		**TIDAL FLAT DEPOSITS**	
					PID=1.6 Sheen=Slight		SILT (ML); appears soft, wet, grey, low to medium plasticity; some black organic matter 1-2 inches in size; moderate chemical-like odor.	
		Boring backfilled with 3/8-in hydrated bentonite chips			PID=1 Sheen=Very slight		SAND (SP); appears loose, wet, grey-brown to red-brown, fine-grained, subangular sand; trace silt; very slight chemical-like odor.	
				MW-4-13.5-14.5 *	PID=15 Sheen=Heavy		SILTY SAND (SM); appears loose, wet, grey-brown, fine- to medium-grained, subangular sand; low plasticity fines; some fine, subrounded gravel; moderate chemical-like odor; heavy sheen appears to be denser than water.	
15	0						**ALLUVIAL DEPOSITS**	15
					PID=1 Sheen=Slight		SAND (SP); appears loose, wet, grey-brown, fine-grained, subangular sand; trace fines; slight petroleum-like odor.	
				MW-4-18-20 *	PID=1 Sheen=Very slight			
20	-5						Bottom of exploration at 20 ft. bgs.	20
							Note: * - Sample submitted to laboratory for analysis. Remaining samples preserved and submitted to laboratory for archival pending results.	
25	-10							25
30	-15							30

Legend

Sample Type
- No Soil Sample Recovery
- Continuous core 3" ID
- Grab sample

Water Level
- Static Water Level
- Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: David Unruh
Approved by: AJY

Exploration Log MW-04

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\190293_SOUTH_PARK_MARINA.GPJ August 26, 2024

Aspect CONSULTING	South Park Marina - 190293		Monitoring Well Log	
	Project Address & Site Specific Location 8604 Dallas Avenue South, Seattle, WA, 98108, SE of Barrel Pond		*Coordinates (SPN NAD83 ft)* E:1275103.21 N:195753.84	*Exploration Number* **MW-04D**
Contractor Holt	*Equipment* Terra Sonic 150CC	*Sampling Method* Rotary core	*Ground Surface Elev. (NAVD88)* 15.21'	Ecology Well Tag No. BPW-025
Operator Quaid Curtis	*Exploration Method(s)* Sonic	*Work Start/Completion Dates* 9/22/2022	*Top of Casing Elev. (NAVD88)* 14.89'	*Depth to Water (Below GS)* 10.5' (ATD)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
	15	8-in flush mount monument set in concrete		MW-04D-0-1	PID=0 Sheen=Slight		Surface cover: gravel base course, ~0.2 feet	
		3/8-in hydrated bentonite chip seal, NSF 60			PID=0 Sheen=None		**FILL** SAND WITH SILT AND GRAVEL (SP-SM); slightly moist, brown; fine to coarse sand; fine, subangular gravel; trace roots and wood fragments; no chemical-like odor.	
					PID=0.1 Sheen=None		SAND WITH SILT (SP-SM); slightly moist, dark brown; fine to coarse sand; trace fine, subangular gravel; no chemical-like odor.	
					PID=0.1 Sheen=Moderate			
5	10	2-in, threaded schedule 40 PVC well casing		MW-04D-4.5-5.5	PID=0.1 Sheen=Heavy		2-in dark gray silt lens with hydrocarbon-like odor.	5
					PID=0.1 Sheen=Moderate			
					PID=0.2 Sheen=Moderate			
					PID=0.1 Sheen=Moderate		Becomes dark brown to gray.	
					PID=0.2 Sheen=Slight			
					PID=1.1 Sheen=Moderate			
10	5	▽ 9/22/2022		MW-04D-10-11	PID=11.2 Sheen=Heavy		Trace burnt wood fragments.	10
		Conductor casing to 13 ft bgs					**TIDAL FLAT DEPOSITS** SILTY SAND (SM); wet, dark brown; fine sand; trace fine to coarse, subrounded gravel; trace roots and wood fragments; trace friable blue-white material; strong hydrocarbon-like odor. Cobble present. Smear from conductor casing from 13 to 14 ft bgs.	
		Bentonite seal placed at bottom of conductor casing before advancing.						
				MW-04D-14-15	PID=4.4 Sheen=Heavy		SAND WITH SILT (SP-SM); very moist, dark brown; fine to coarse sand; trace wood fragments; strong hydrocarbon-like odor.	
15	0	12/20 silica sand filter pack			PID=2.4 Sheen=Moderate		Orange oxidation staining.	15
				MW-04D-16-17	PID=36.1 Sheen=Heavy		SILT (ML); moist, dark brown; low plasticity; trace fine gravel; sheen is denser than water; strong hydrocarbon-like odor.	
		2-in, prepacked 0.010-in (10-slot) slotted schedule 40 PVC screen			PID=1.4 Sheen=None			
					PID=0.8 Sheen=None		**ALLUVIAL DEPOSITS** SAND (SP); moist, dark brown; fine to coarse sand; trace fine, subrounded gravel; trace fines; no chemical-like odor.	
				MW-04D-19-20	PID=0.5 Sheen=None		Trace wood fragments and roots noted in 6-in thick lens.	
20	-5				PID=0.5 Sheen=None		SAND WITH SILT (SP-SM); very moist, dark brown; fine to coarse sand; trace, fine to coarse, subrounded gravel; small layers of silt transitioning into Till; no chemical-like odor.	20
				MW-04D-21-22	PID=0.4 Sheen=None			
					PID=0.5 Sheen=None		**GLACIAL TILL** SANDY SILT (ML); moist, dark gray; low plasticity; fine to coarse sand; fine to coarse, subrounded to subangular gravel; no chemical-like odor. 2-in sand layer. Increased gravel content.	
		Boring backfilled with 3/8-in hydrated bentonite chips, NSF 60.			PID=0.1 Sheen=None			
					PID=0.1 Sheen=None			
25	-10			MW-04D-25-26	PID=0.1 Sheen=None			25
					PID=0.1 Sheen=None			
					PID=0.7 Sheen=None			
					PID=0.3 Sheen=None		SILT (ML); moist, dark gray; low plasticity; trace fine sand; trace fine, subrounded gravel; no chemical-like odor.	
30	-15			MW-04D-29-30	PID=0.2 Sheen=None		Bottom of exploration at 30 ft. bgs.	30

Legend

Sample Type
- ◯ No Soil Sample Recovery
- ▮▯ Continuous core 4" ID
- ▩ Grab sample

Water Level
- ▽ Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: MMR
Approved by: AJY

Exploration Log MW-04D
Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\190293_SOUTH_PARK_MARINA.GPJ August 26, 2024

Aspect CONSULTING	South Park Marina - 190293		Monitoring Well Log	
	Project Address & Site Specific Location: 8604 Dallas Avenue South, Seattle, WA, 98108, Inferred former east edge of settling pond		Coordinates (SPN NAD83 ft): E:1275102.6 N:195772.2	Exploration Number: **MW-05**
Contractor: Holt	Equipment: Geoprobe 7800	Sampling Method: Percussion hammer	Ground Surface Elev. (NAVD88): 15.09'	Ecology Well Tag No. BND 372
Operator: Cody	Exploration Method(s): Direct push	Work Start/Completion Dates: 3/5/2021	Top of Casing Elev. (NAVD88): 14.5'	Depth to Water (Below GS): 6.99' (Static)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
		8-in flush mount monument set in concrete		MW-5-0-1 *	PID=0.5 Sheen=Slight		Surface cover: vegetated gravel base course, ~0.2 feet	
		3/8-in hydrated bentonite chip seal, NSF 60		MW-5-1-1.5			**FILL** SAND WITH GRAVEL (SP); appears loose, moist, grey-brown, fine- to medium-grained, subangular sand; fine to coarse, subrounded gravel; trace fines; no chemical-like odor.	
		2-in, threaded schedule 40 PVC well casing			PID=2 Sheen=Heavy		SILTY SAND WITH GRAVEL (SM); appears loose, very moist, red-brown to grey, fine- to medium-grained, subangular sand; low plasticity fines; fine to coarse, subrounded gravel; no chemical-like odor.	
5	10	10-20 silica sand filter pack		MW-5-4-5	PID=8 Sheen=Heavy			5
		▽ 3/5/2021					SAND (SP); appears loose, moist, grey, fine- to medium-grained, subangular sand; trace fines; slight chemical-like odor.	
		▼ 3/12/2021		MW-5-6-7 *	PID=26 Sheen=Heavy			
		2-in, prepacked 0.010-in (10-slot) slotted schedule 40 PVC screen		MW-5-8-9.5 *	PID=34 Sheen=Heavy		SILTY SAND WITH GRAVEL (SM); appears loose, very moist, dark grey, fine- to medium-grained, subangular sand; fine, subangular gravel; low plasticity fines; moderate chemical-like odor, heavy iridescent sheen.	
10	5				PID=3 Sheen=Slight		SAND (SP); appears loose, very moist, red-brown to dark grey, fine- to medium-grained, subangular sand; trace fines; moderate chemical-like odor, heavy sheen visible on soil in sample core.	10
					PID=3 Sheen=Moderate		**TIDAL FLAT DEPOSITS** SILT (ML); appears soft, very moist, dark grey, low to medium plasticity; some organic matter; slight chemical-like odor.	
		Boring backfilled with 3/8-in hydrated bentonite chips			PID=0.7 Sheen=Slight		SILTY SAND (SM); appears loose, wet, grey, fine- to medium-grained, subangular sand; low to medium plasticity fines; slight chemical-like odor.	
15	0			MW-5-15-16 *	PID=9 Sheen=Heavy		SILT (ML); appears soft, wet, dark grey, medium plasticity; slight chemical-like odor.	15
					PID=1 Sheen=No sheen		**ALLUVIAL DEPOSITS** SAND (SP); appears loose, wet, grey-brown, fine- to medium-grained, subangular sand; trace fines; no chemical-like odor. Slight petroleum-like odor at 15 feet bgs.	
20	-5			MW-5-20-22.5 *	PID=2 Sheen=Moderate			20
					PID=1 Sheen=No Sheen		**GLACIAL TILL** SANDY SILT WITH GRAVEL (ML); appears stiff, very moist, grey, low plasticity; fine-grained, subangular sand; fine, rounded gravel; trace shell fragments near upper contact; no chemical-like odor.	
25	-10				PID=0.8 Sheen=No sheen			25
				MW-5-26.5-28 *	PID=2 Sheen=No sheen		SILT (ML); appears stiff; moist, grey; low plasticity; no chemical-like odor.	
30	-15						Bottom of exploration at 30 ft. bgs.	30

Note: * - Sample submitted to laboratory for analysis. Remaining samples preserved and submitted to laboratory for archival pending results.

Legend

Sample Type
- ◯ No Soil Sample Recovery
- ◧ Continuous core 3" ID
- ▩ Grab sample

Water Level
- ▼ Static Water Level
- ▽ Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: David Unruh
Approved by: AJY

Exploration Log MW-05

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINT\WPROJECTS\190293_SOUTH_PARK_MARINA.GPJ August 26, 2024

Aspect CONSULTING	South Park Marina - 190293		Monitoring Well Log	
	Project Address & Site Specific Location 8604 Dallas Avenue South, Seattle, WA, 98108, NE of Barrel Pond		*Coordinates (SPN NAD83 ft)* E:1275105.99 N:195774.24	*Exploration Number* **MW-05D**
Contractor Holt	*Equipment* Terra Sonic 150CC	*Sampling Method* Rotary core	*Ground Surface Elev. (NAVD88)* 14.81'	Ecology Well Tag No. BPW-024
Operator Quaid Curtis	*Exploration Method(s)* Sonic	*Work Start/Completion Dates* 9/21/2022 to 9/22/2022	*Top of Casing Elev. (NAVD88)* 14.39'	*Depth to Water (Below GS)* 10' (ATD)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
		8-in flush mount monument set in concrete		MW-05D-0-1	PID=0.7 Sheen=None		Surface cover: vegetated topsoil	
							FILL	
		3/8-in hydrated bentonite chip seal, NSF 60			Sheen=None		SAND WITH SILT AND GRAVEL (SP-SM); slightly moist, brown; fine to coarse sand; fine to coarse, subangular gravel, trace wood fragments and roots; no chemical-like odor.	
					PID=0.2 Sheen=None			
					Sheen=None		SAND WITH SILT (SP-SM); slightly moist, brown; fine to medium sand; no chemical-like odor.	
5	10	2-in, threaded schedule 40 PVC well casing			PID=0.6 Sheen=None		Becomes moist and dark gray.	5
					PID=0.6 Sheen=None			
				MW-05D-6-7	Sheen=None			
					PID=0.2 Sheen=None			
					Sheen=Slight		Slight platy sheen.	
					PID=0.6 Sheen=None			
10	5	▽ 9/21/2022 Conductor casing to 12-ft bgs		MW-05D-9-10	PID=88.4 Sheen=Heavy		1-in layer of silt that starts brown and turns dark gray near base.	10
		Bentonite seal placed at bottom of conductor casing before advancing.		MW-05D-10-11	PID=0.9 Sheen=None		Becomes wet, dark gray, with a strong chemical-like odor, heavy sheen, and wood fragments.	
							TIDAL FLAT DEPOSITS	
					PID=1.4 Sheen=None		SILT (ML); moist, dark gray; low to medium plasticity; lamination; trace wood fragments and leaves; no chemical-like odor.	
		12/20 silica sand filter pack		MW-05D-13-14	PID=38.6 Sheen=Moderate		SILTY SAND (SM); wet, red brown; some silt; fine sand; no chemical-like odor.	
15	0	2-in, prepacked 0.010-in (10-slot) slotted schedule 40 PVC screen			PID=2.1 Sheen=None		Hydrocarbon-like odor at 13 ft bgs, clears up by 14 ft bgs.	15
				MW-05D-15-16	PID=0.5 Sheen=None		SAND WITH SILT (SP-SM); wet, dark gray; fine to medium sand; no chemical-like odor.	
					PID=0.4 Sheen=None		**ALLUVIAL DEPOSITS**	
					PID=0.3 Sheen=None		SAND (SP); wet, dark gray; fine to medium sand; trace red sand; no chemical-like odor.	
					Sheen=None			
20	-5				PID=0.3 Sheen=None		SILT (ML); moist, dark gray; low plasticity; fine to coarse sand; fine to coarse, rounded to subrounded gravel; no chemical-like odor.	20
					PID=0.5 Sheen=None			
				MW-05D-21.5-22.5	PID=0.3 Sheen=None		SAND WITH SILT (SP-SM); wet, dark gray; fine to coarse sand; trace red sand; trace 1-in shell fragments; no chemical-like odor.	
		Boring backfilled with 3/8-in hydrated bentonite chips			Sheen=None			
							GLACIAL TILL	
					PID=0.3 Sheen=None		SANDY SILT WITH GRAVEL (ML); appears hard, moist, dark gray; low plasticity; fine to coarse sand; fine to coarse, subrounded to subangular gravel; no chemical-like odor.	
25	-10				PID=0.3 Sheen=None			25
					Sheen=None		2-in wet layer with higher sand content and appears less consolidated	
				MW-05D-26-27	PID=0.3 Sheen=None		SILT WITH SAND (ML); appears hard, slightly moist to moist, dark gray; low plasticity; fine sand; trace fine, rounded gravel; no chemical-like odor.	
					PID=0.3 Sheen=None			
					PID=0.3 Sheen=None		SILT (ML); appears hard, slightly moist, dark gray; low plasticity; trace fine sand; no chemical-like odor.	
30	-15				Sheen=None			30
				MW-05D-30-31	PID=0.5 Sheen=None		SANDY SILT WITH GRAVEL (ML); appears hard, slightly moist, dark gray; low plasticity; fine to coarse sand; fine to coarse, rounded to subangular gravel; fines downward; no chemical-like odor.	
					PID=0.5 Sheen=None			
					PID=0.5 Sheen=None			
					PID=0.4			

Legend

Sample Type
- ◯ No Soil Sample Recovery
- ◧ Continuous core 4" ID
- ◩ Grab sample

Water Level
- ▽ Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: DJM
Approved by: AJY

Exploration Log MW-05D

Sheet 1 of 2

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\190293_SOUTH_PARK_MARINA.GPJ August 26, 2024

Aspect CONSULTING	South Park Marina - 190293		Monitoring Well Log	
	Project Address & Site Specific Location 8604 Dallas Avenue South, Seattle, WA, 98108, NE of Barrel Pond		*Coordinates (SPN NAD83 ft)* E:1275105.99 N:195774.24	*Exploration Number* **MW-05D**
Contractor Holt	*Equipment* Terra Sonic 150CC	*Sampling Method* Rotary core	*Ground Surface Elev. (NAVD88)* 14.81'	Ecology Well Tag No. BPW-024
Operator Quaid Curtis	*Exploration Method(s)* Sonic	*Work Start/Completion Dates* 9/21/2022 to 9/22/2022	*Top of Casing Elev. (NAVD88)* 14.39'	*Depth to Water (Below GS)* 10' (ATD)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
35	-20			MW-05D-34-35	Sheen=None PID=0.5 Sheen=None		SANDY SILT WITH GRAVEL (ML); appears hard, slightly moist, dark gray; low plasticity; fine to coarse sand; fine to coarse, rounded to subangular gravel; fines downward; no chemical-like odor. (continued)	35
					PID=0.4 Sheen=None			
					PID=0.4 Sheen=None		SILT (ML); slightly moist, dark gray; low to medium plasticity; trace to sub-trace fine sand; no chemical-like odor.	
					PID=0.4 Sheen=None			
					PID=0.4 Sheen=None			
40	-25			MW-05D-39-40	PID=0.4 Sheen=None		Bottom of exploration at 40 ft. bgs.	40
45	-30							45
50	-35							50
55	-40							55
60	-45							60
65	-50							65

Legend

Sample Type
- ◯ No Soil Sample Recovery
- ▮▮ Continuous core 4" ID
- ▩ Grab sample

Water Level
- ▽ Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: DJM
Approved by: AJY

Exploration Log MW-05D
Sheet 2 of 2

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\190293_SOUTH_PARK_MARINA.GPJ August 26, 2024

Aspect CONSULTING	South Park Marina - 190293		Monitoring Well Log	
	Project Address & Site Specific Location: 8604 Dallas Avenue South, Seattle, WA, 98108, N end of sheet pile wall E of inferred settling pond		Coordinates (SPN NAD83 ft): E:1275103 N:195786.8	Exploration Number: **MW-06**
Contractor: Holt	Equipment: Geoprobe 7800	Sampling Method: Percussion hammer	Ground Surface Elev. (NAVD88): 14.47'	Ecology Well Tag No. BND 371
Operator: Cody	Exploration Method(s): Direct push	Work Start/Completion Dates: 3/5/2021	Top of Casing Elev. (NAVD88): 14.22'	Depth to Water (Below GS): 7.25' (Static)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
0	10	8-in flush mount monument set in concrete 3/8-in hydrated bentonite chip seal, NSF 60 2-in, threaded schedule 40 PVC well casing ▽ 3/5/2021 10-20 silica sand filter pack 2-in, prepacked 0.010-in (10-slot) slotted schedule 40 PVC screen ▼ 3/12/2021		MW-6-0-1 *	PID=0.2 Sheen=Slight		Surface cover: vegetated topsoil **FILL** SANDY SILT (ML); appears soft, moist, brown, low plasticity; fine- to coarse-grained, subangular sand; trace fine to coarse, subangular to subrounded gravel; trace brick fragments; root fragments and silt-sized organic debris 0-0.25 ft bgs; no chemical-like odor.	0
5	5			MW-6-4-5 *	PID=0.3 Sheen=Slight PID=0.3 Sheen=Slight		SAND WITH SILT AND GRAVEL (SP-SM); appears loose, moist, grey-brown, fine- to coarse-grained, primarily medium-grained, subangular sand; fine to coarse, subangular gravel; low plasticity fines; no chemical-like odor. SAND (SP); appears loose, moist, grey-brown, fine- to medium-grained, subangular sand; trace fines; no chemical-like odor. becomes wet.	5
10	0	Boring backfilled with 3/8-in hydrated bentonite chips		MW-6-9 * MW-6-9.75	PID=0.6 Sheen=No sheen PID=0.5 Sheen=No sheen		**TIDAL FLAT DEPOSITS** SILT (ML); appears soft, very moist, dark grey, low to medium plasticity; trace fine- to medium-grained, subangular sand; no chemical-like odor. SAND (SP); appears loose, wet, grey-brown, fine- to medium-grained, subangular sand; trace fines; trace organic matter; no chemical-like odor.	10
15	-5				PID=0.5 Sheen=No sheen PID=0.8 Sheen=No sheen PID=0.6 Sheen=No sheen		SILT WITH SAND (ML); appears soft, wet, dark grey, low plasticity; fine- to medium-grained, subangular sand; no chemical-like odor. ORGANIC SILT (OL); appears soft, moist, black, low plasticity; mostly black organic matter; slight sulfur-like odor. **ALLUVIAL DEPOSITS** SAND (SP); appears loose, wet, dark grey, fine- to medium-grained, subangular sand; trace fines; no chemical-like odor.	15
20	-10			MW-6-18-20 *	PID=0.8 Sheen=No sheen PID=0.6 Sheen=No sheen		ORGANIC SILT (OL); appears soft, moist, dark grey to black, medium plasticity; silt-sized organic matter; moderate sulfur-like odor. SAND (SP); appears loose, wet, dark grey, fine- to medium-grained, subangular sand; trace fines; very slight sulfur-like odor.	20
25	-15						Bottom of exploration at 20 ft. bgs.	25
30								30

Note: * - Sample submitted to laboratory for analysis. Remaining samples preserved and submitted to laboratory for archival pending results.

Legend

Sample Type
- ◯ No Soil Sample Recovery
- ◧ Continuous core 3" ID
- ▩ Grab sample

Water Level
- ▼ Static Water Level
- ▽ Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: David Unruh
Approved by: AJY

Exploration Log MW-06

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\190293_SOUTH_PARK_MARINA.GPJ August 26, 2024

Aspect CONSULTING

South Park Marina - 190293

Project Address & Site Specific Location: 8604 Dallas Avenue South, Seattle, WA, 98108, NE of Barrel Pond Near Shore

Monitoring Well Log

Contractor	Equipment	Sampling Method	Coordinates (SPN NAD83 ft)	Exploration Number
Holt	Terra Sonic 150CC	Rotary core	E:1275093.61 N:195787.94	**MW-06D**
Operator	**Exploration Method(s)**	**Work Start/Completion Dates**	**Ground Surface Elev. (NAVD88)**	Ecology Well Tag No. BPW-023
Quaid Curtis	Sonic	9/21/2022	14.85'	
			Top of Casing Elev. (NAVD88)	**Depth to Water (Below GS)**
			14.63'	10' (ATD)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
		8-in flush mount monument set in concrete		MW-06D-0-1	PID=0.3 Sheen=None		Surface cover: vegetated topsoil	
		3/8-in hydrated bentonite chip seal, NSF 60			PID=0.2 Sheen=None		**FILL** SAND WITH SILT AND GRAVEL (SP-SM); slightly moist, brown; fine to coarse sand; fine to coarse, subangular gravel; trace roots and wood fragments; no chemical-like odor.	
					PID=0.3 Sheen=None		SAND WITH SILT (SP-SM); slightly moist, dark brown to gray; fine to medium sand; trace red sand; no chemical-like odor.	
					PID=0.2 Sheen=None		Becomes moist.	
5	10	2-in, threaded schedule 40 PVC well casing		MW-06D-4-5	Sheen=None			5
					Sheen=None		Becomes dark gray with slight platy sheen	
		Conductor casing to 10 ft bgs			Sheen=Slight PID=0.3			
		Bentonite seal placed at bottom of conductor casing before advancing.			PID=0.2 Sheen=None		Becomes very moist. 1/2-in SILT layer with 1/8-in wood fragments.	
				MW-06D-8.5-9.5			**TIDAL FLAT DEPOSITS** SILTY SAND (SM); very moist, dark brown; some silt; fine to medium sand; no wood fragments; no chemical-like odor.	
10	5	▽ 9/21/2022			PID=0.2 Sheen=None		SANDY SILT (ML); wet, dark brown; low plasticity; some fine to medium sand; lamination throughout; no chemical-like odor.	10
				MW-06D-12.5-13.5	PID=0.3 Sheen=None		SILT (ML); wet, dark brown; low plasticity; no chemical-like odor.	
		12/20 sand			PID=0.3 Sheen=None		SAND WITH SILT (SP-SM); wet, dark gray; fine to medium sand; trace red sand; orange tinged 1/4-in thick laminae; no chemical-like odor.	
15	0						**ALLUVIAL DEPOSITS** SAND (SP); wet, dark gray; fine to medium sand; trace silt; trace red sand; no chemical-like odor.	15
		2 inch Sch 40 prepacked screen 0.010 inch slot size			PID=0.3 Sheen=None			
					PID=0.3 Sheen=None		Becomes fine to coarse sand.	
				MW-06D-19-20	PID=0.2 Sheen=None			
20	-5				Sheen=None		**GLACIAL TILL** SANDY SILT (ML); appears hard, moist, dark gray; low plasticity; little fine to coarse sand; little fine to coarse, rounded to subrounded gravel; gravel and sand content decreases with depth; no chemical-like odor.	20
					PID=0.4 Sheen=None			
		Native sand heave			Sheen=None			
					PID=0.6 Sheen=None			
25	-10				Sheen=None			25
					PID=0.5 Sheen=None			
				MW-06D-26-27	Sheen=None			
					PID=0.4 Sheen=None			
				MW-06D-29-30	PID=0.5 Sheen=None		SILT (ML); appears hard, slightly moist, dark gray; low plasticity; trace fine sand; trace fine gravel; no chemical-like odor. Cobble present.	
30	-15						Bottom of exploration at 30 ft. bgs.	30

Legend

Sample Type
- ◯ No Soil Sample Recovery
- ▮▮ Continuous core 4" ID
- ▩ Grab sample

Water Level
- ▽ Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: DJM
Approved by: AJY

Exploration Log MW-06D

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\190293_SOUTH_PARK_MARINA.GPJ August 26, 2024

Aspect CONSULTING	South Park Marina - 190293		Monitoring Well Log	
	Project Address & Site Specific Location: 8604 Dallas Avenue South, Seattle, WA, 98108, N of crane along shoreline		Coordinates (SPN NAD83 ft): E:1275052.1 N:195833	Exploration Number: **MW-07**
Contractor: Holt	Equipment: Geoprobe 7800	Sampling Method: Percussion hammer	Ground Surface Elev. (NAVD88): 15.61'	Ecology Well Tag No. BND 377
Operator: Cody	Exploration Method(s): Direct push	Work Start/Completion Dates: 3/9/2021	Top of Casing Elev. (NAVD88): 14.69'	Depth to Water (Below GS): 7.81' (Static)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
0	15	8-in flush mount monument set in concrete 3/8-in hydrated bentonite chip seal, NSF 60 2-in, threaded schedule 40 PVC well casing 10-20 silica sand filter pack ▽ 3/9/2021 2-in, prepacked 0.010-in (10-slot) slotted schedule 40 PVC screen ▼ 3/12/2021 Boring backfilled with 3/8-in hydrated bentonite chips		MW-7-0-1 *	PID=0.7 Sheen=Organic		Surface cover: 3 inch asphalt, 8 inch gravel base course **FILL** SAND WITH SILT (SP-SM); appears loose, moist, brown, fine- to medium-grained, trace coarse-grained, subangular sand; fine to coarse, subangular to subrounded gravel; low plasticity fines; no chemical-like odor.	0
5	10			MW-7-3-5	PID=0.6 Sheen=Slight		SAND (SP); appears loose, moist, brown, fine- to medium-grained, subangular sand; trace fine to coarse, subangular to subrounded gravel; trace fines; no chemical-like odor.	5
				MW-7-5-6 *	PID=0.9 Sheen=No sheen		Becomes wet.	
10	5				PID=0.5 Sheen=No sheen		**TIDAL FLAT DEPOSITS** SANDY SILT (ML); appears soft, wet, grey, low plasticity; fine-grained, subangular sand; no odor.	10
					PID=0.7 Sheen=No sheen		CLAY WITH GRAVEL (CH); appears soft, wet, light brown, high plasticity; fine gravel-sized, red-brown particles of consolidated sand at bottom contact; no odor.	
					PID=0.7 Sheen=No sheen		SILTY SAND (SM); appears loose, wet, grey, fine-grained, subangular sand; medium plasticity fines; trace wood debris near bottom contact; slight sulfur-like odor.	
15	0				PID=0.6 Sheen=No sheen		**ALLUVIAL DEPOSITS** SAND (SP); appears loose, wet, black, fine- to medium-grained, subangular sand; trace fines; no odor. Sand becomes majority medium-grained.	15
					PID=0.5 Sheen=No sheen			
				MW-7-17-19	PID=0.8 Sheen=No sheen			
20	-5						Bottom of exploration at 20 ft. bgs.	20
25	-10						Note: * - Sample submitted to laboratory for analysis. Remaining samples preserved and submitted to laboratory for archival pending results.	25
30	-15							30

Legend

Sample Type
- ◯ No Soil Sample Recovery
- ◧ Continuous core 3" ID
- ▩ Grab sample

Water Level
- ▼ Static Water Level
- ▽ Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: David Unruh
Approved by: AJY

Exploration Log MW-07
Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\190293_SOUTH_PARK_MARINA.GPJ August 26, 2024

Aspect CONSULTING	South Park Marina - 190293		Monitoring Well Log	
	Project Address & Site Specific Location: 8604 Dallas Avenue South, Seattle, WA, 98108, E of boat maintenance building along shoreline		Coordinates (SPN NAD83 ft): E:1274976.9 N:195900.6	Exploration Number: **MW-08**
Contractor: Holt	Equipment: Geoprobe 7800	Sampling Method: Percussion hammer	Ground Surface Elev. (NAVD88): 15.33'	Ecology Well Tag No. BND 375
Operator: Cody	Exploration Method(s): Direct push	Work Start/Completion Dates: 3/9/2021	Top of Casing Elev. (NAVD88): 14.33'	Depth to Water (Below GS): 9.89' (Static)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
0	15	8-in flush mount monument set in concrete		MW-8-0-1 *	PID=0.4 Sheen=Slight		Surface cover: gravel base course, ~1 foot	0
							FILL SILTY SAND (SM); appears loose, moist, brown, fine- to medium-grained, subangular sand; low plasticity fines; trace fine, subrounded gravel; no odor.	
					PID=0.5 Sheen=Organic			
		3/8-in hydrated bentonite chip seal, NSF 60		MW-8-3-5	PID=0.6 Sheen=Organic		SAND (SP); appears loose, moist, grey-brown, fine- to medium-grained, subangular sand; trace fines; no odor.	
5	10	2-in, threaded schedule 40 PVC well casing			PID=0.6 Sheen=Slight		SILTY SAND (SM); appears loose, very moist, grey to brown, fine-grained, subangular sand; low plasticity fines; trace organic matter; no odor.	5
		10-20 silica sand filter pack					SAND (SP); appears loose, moist, brown, fine- to medium-grained, subangular sand; trace fines; no odor.	
		▽ 3/9/2021		MW-8-8-9 *	PID=0.8 Sheen=No sheen		SAND WITH SILT (SP-SM); appears loose, wet, grey-brown, fine-grained, subangular sand; fines low plasticity; no odor.	
10	5	▼ 3/12/2021 2-in, prepacked 0.010-in (10-slot) slotted schedule 40 PVC screen			PID=0.7 Sheen=No sheen		**ALLUVIAL DEPOSITS** SAND (SP); appears loose, wet, dark grey-brown, fine- to medium-grained, subangular sand; trace fines; no odor.	10
					PID=0.7 Sheen=No sheen		Becomes brown.	
15	0	Boring backfilled with 3/8-in hydrated bentonite chips			PID=0.5 Sheen=No sheen		Sand becomes majority medium-grained.	15
					PID=0.7 Sheen=No sheen			
				MW-8-18-20	PID=0.7 Sheen=No sheen			
20	-5						Bottom of exploration at 20 ft. bgs.	20
							Note: * - Sample submitted to laboratory for analysis. Remaining samples preserved and submitted to laboratory for archival pending results.	
25	-10							25
30	-15							30

Legend

Sample Type
- ◯ No Soil Sample Recovery
- ▮▯ Continuous core 3" ID
- ▩ Grab sample

Water Level
- ▼ Static Water Level
- ▽ Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: David Unruh
Approved by: AJY

Exploration Log MW-08

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\190293_SOUTH_PARK_MARINA.GPJ August 26, 2024

Aspect CONSULTING	South Park Marina - 190293		Monitoring Well Log	
	Project Address & Site Specific Location: 8604 Dallas Avenue South, Seattle, WA, 98108, NE of South Park Marina Main Shop		Coordinates (SPN NAD83 ft): E:1274991.82 N:195886.26	Exploration Number: **MW-08D**
Contractor: Holt	Equipment: Geoprobe 7822DT	Sampling Method: Percussion hammer	Ground Surface Elev. (NAVD88): 15.21'	Ecology Well Tag No. BPW-036
Operator: Mike Running	Exploration Method(s): Direct push	Work Start/Completion Dates: 9/15/2022	Top of Casing Elev. (NAVD88): 14.67'	Depth to Water (Below GS): 14.5' (ATD)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
0	15	8-in flush mount monument set in concrete		MW-08D-0-1	PID=0.1 Sheen=None		Surface cover: gravel base course	0
					PID=0.2 Sheen=None		SAND WITH SILT AND GRAVEL (SP-SM); slightly moist, light brown; fine to coarse sand; fine to coarse subangular to angular gravel; trace small roots; no chemical-like odor.	
		3/8-in hydrated bentonite chip seal, NSF 60					SAND (SP); slightly moist, gray brown; fine to coarse sand, fine to coarse subangular to angular gravel; trace roots; no chemical-like odor.	
5	10	2-in, threaded schedule 40 PVC well casing		MW-08D-5-6	PID=0.3 Sheen=None			5
					PID=0.4 Sheen=None		SILTY SAND (SM); moist, gray brown with orange laminae; fine sand; trace wood and roots; no chemical-like odor.	
					PID=0.6 Sheen=None		Becomes with alternating layers of SAND (SP).	
					PID=0.7 Sheen=None		**ALLUVIAL DEPOSITS** SAND (SP); moist, dark gray brown; fine to medium sand; trace silt; trace red sand; no chemical-like odor.	
10	5	12/20 silica sand filter pack					Becomes very moist.	10
		Native sand heave/slough			PID=0.2 Sheen=None			
		▽ 9/15/2022						
15	0	2-in, prepacked 0.010-in (10-slot) slotted schedule 40 PVC screen		MW-08D-15-16	PID=0.1 Sheen=None		SAND WITH SILT (SP-SM); moist to very moist, dark gray with brown; fine to medium sand; trace red sand; no chemical-like odor.	15
					PID=0.1 Sheen=None			
20	-5			MW-08D-20-21	PID=0.2 Sheen=None		Becomes wet and dark gray.; fine to coarse sand, trace red sand; no chemical-like odor.	20
					PID=0.2 Sheen=None			
25	-10						Bottom of exploration at 24.5 ft. bgs.	25
30	-15							30

Legend

Sample Type
- ◯ No Soil Sample Recovery
- ◧ Continuous core 3" ID
- ▩ Grab sample

Water Level
- ▽ Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: DJM
Approved by: AJY

Exploration Log MW-08D
Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\190293_SOUTH_PARK_MARINA.GPJ August 26, 2024

Aspect CONSULTING	South Park Marina - 190293		Monitoring Well Log	
	Project Address & Site Specific Location: 8604 Dallas Avenue South, Seattle, WA, 98108, S of dock entrance along shoreline		Coordinates (SPN NAD83 ft): E:1274877 N:195985.2	Exploration Number: **MW-09**
Contractor: Holt	Equipment: Geoprobe 7800	Sampling Method: Percussion hammer	Ground Surface Elev. (NAVD88): 14.56'	Ecology Well Tag No. BND 376
Operator: Cody	Exploration Method(s): Direct push	Work Start/Completion Dates: 3/9/2021	Top of Casing Elev. (NAVD88): 14.06'	Depth to Water (Below GS): 9.76' (Static)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
0	10	8-in flush mount monument set in concrete 3/8-in hydrated bentonite chip seal, NSF 60 2-in, threaded schedule 40 PVC well casing		MW-9-0-1 *	PID=0.6 Sheen=Slight		Surface cover: 3 inch asphalt, 3 inch gravel base course **FILL** SAND WITH GRAVEL (SW); appears loose, moist, light brown, fine- to coarse-grained, subangular sand; fine to coarse, subrounded gravel; no odor.	0
5	5	▽ 3/9/2021 10-20 silica sand filter pack 2-in, prepacked 0.010-in (10-slot) slotted schedule 40 PVC screen		MW-9-3-5 MW-9-5-6 *	PID=0.9 Sheen=Slight PID=0.9 Sheen=Slight PID=0.8 Sheen=No sheen		SILTY SAND (SM); appears loose, moist, brown, fine- to medium-grained, subangular sand; low plasticity fines; trace fine, subangular gravel; No odor. SANDY SILT (ML); appears soft, wet, red-brown to grey, low plasticity; fine-grained, subangular sand; slight sulfur-like odor.	5
10	0	▽ 3/23/2021 Boring backfilled with 3/8-in hydrated bentonite chips			PID=0.7 Sheen=No sheen PID=1 Sheen=No sheen PID=0.9 Sheen=No sheen PID=0.8 Sheen=No sheen		**TIDAL FLAT DEPOSITS** SILT (ML); appears soft, wet, grey, low plasticity; trace fine-grained, subangular sand; slight sulfur-like odor. SILTY SAND (SM); appears loose, wet, grey to grey-brown, fine-grained, subangular sand; low plasticity; slight sulfur-like odor. SANDY SILT (ML); appears soft, wet, grey, low plasticity fines; fine-grained, subangular sand; slight sulfur-like odor.	10
15	-5				PID=1 Sheen=No sheen PID=2 Sheen=No sheen		SAND (SP); appears loose, wet, grey-brown, fine- to medium-grained, subangular sand; trace fines; very slight sulfur-like odor. SANDY SILT (ML); appears soft, wet, grey to brown, low plasticity; fine-grained, subangular sand; slight sulfur-like odor.	15
20	-10			MW-9-18-20	PID=2 Sheen=No sheen		**ALLUVIAL DEPOSITS** SAND (SP); appears loose, wet, grey-brown, fine- to medium-grained, subangular sand; trace fines; very slight sulfur-like odor. Bottom of exploration at 20 ft. bgs.	20
25	-15							25
30								30

Note: * - Sample submitted to laboratory for analysis. Remaining samples preserved and submitted to laboratory for archival pending results.

Legend

Sample Type
- ◯ No Soil Sample Recovery
- ◫ Continuous core 3" ID
- ⊠ Grab sample

Water Level
- ▼ Static Water Level
- ▽ Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: David Unruh
Approved by: AJY

Exploration Log MW-09
Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\190293_SOUTH_PARK_MARINA.GPJ August 26, 2024

Aspect CONSULTING	South Park Marina - 190293		Monitoring Well Log	
	Project Address & Site Specific Location 8604 Dallas Avenue South, Seattle, WA, 98108, SE of Dock Gate		*Coordinates (SPN NAD83 ft)* E:1274881.58 N:195976.70	*Exploration Number* **MW-09D**
Contractor Holt	*Equipment* Geoprobe 7822DT	*Sampling Method* Percussion hammer	*Ground Surface Elev. (NAVD88)* 14.7'	Ecology Well Tag No. BPW-035
Operator Mike Running	*Exploration Method(s)* Direct push	*Work Start/Completion Dates* 9/14/2022 to 9/15/2022	*Top of Casing Elev. (NAVD88)* 14.29'	*Depth to Water (Below GS)* 7' (ATD)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
		8-in flush mount monument set in concrete		MW-09D-0-1 Hand Auger	PID=0.2 Sheen=None		Surface cover: 4 inches asphalt, 1 inch gravel base course	
				Vacuum cleared to 5ft			**FILL** SILTY SAND (SM); appears very loose, dry, brown; fine to medium sand; trace fine subrounded gravel; noncohesive; no chemical-like odor.	
		3/8-in hydrated bentonite chip seal, NSF 60						
5	10	2-in, threaded schedule 40 PVC well casing			PID=0.2 Sheen=Slight		Excavated to 5 ft bgs using air knife and vacuum truck. SAND WITH SILT (SP-SM); moist, brown; fine sand; no chemical-like odor.	5
		▽ 9/14/2022			PID=0.1 Sheen=None		**TIDAL FLAT DEPOSITS**	
				MW-09D-6.5-7.5	PID=0.1 Sheen=Slight		SILTY SAND (SM); moist, gray brown; some silt; fine sand; orange 1 to 2-mm thick layers with increased sand content; no chemical-like odor.	
					PID=0.1 Sheen=None		Becomes wet, gray with orange layers.	
10	5						SAND WITH SILT (SP-SM); wet, dark gray; fine sand; trace red sand; no chemical-like odor.	10
		12/20 silica sand filter pack			PID=0.6 Sheen=None		SILTY SAND (SM); wet, dark gray brown; fine sand; ends in 1-in silt layer; trace red sand; no chemical-like odor.	
		Native sand heave		MW-09D-11-12	PID=0.6 Sheen=None		SAND WITH SILT (SP-SM); wet, dark gray; few silt; fine sand; trace red sand; no chemical-like odor.	
					PID=0.7 Sheen=None		**ALLUVIAL DEPOSITS**	
					PID=0.8 Sheen=None		SAND (SP); wet, dark gray; fine to medium sand; trace silt; fine red grains; no chemical-like odor.	
15	0						SILTY SAND (SM); wet, gray to dark gray; fine to medium sand; 1/4-in diameter piece of wood; no chemical-like odor.	15
				MW-09D-15-16	PID=0.4 Sheen=None		SAND (SP); wet, dark gray; fine to medium sand; trace silt; no chemical-like odor.	
		2-in, prepacked 0.010-in (10-slot) slotted schedule 40 PVC screen			PID=0.9 Sheen=None		Trace coarse subangular to subrounded gravel.	
					PID=0.7 Sheen=None		SAND WITH SILT (SP-SM); wet, dark gray; few silt; fine sand;	
				MW-09D-18.5-19.5	PID=1 Sheen=None		SAND (SP); wet, dark gray with orange color in places; fine to coarse sand; trace orange silt; no chemical-like odor.	
20	-5				PID=1.6 Sheen=None			20
					PID=0.6 Sheen=None			
					PID=0.6 Sheen=None		3-in layer with orange oxidation staining and few silt.	
					PID=0.7 Sheen=None		3-in layer with orange oxidation staining and few silt.	
					PID=1.1 Sheen=None			
25	-10			MW-09D-24-25	PID=0.9 Sheen=None		Bottom of exploration at 25 ft. bgs.	25
30	-15							30

Legend

Sample Type
- ◯ No Soil Sample Recovery
- Continuous core 1.85" ID
- Grab sample
- Continuous core 3" ID

Water Level
- ▽ Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: AJY/DJM
Approved by: SJG

Exploration Log MW-09D
Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\190293_SOUTH_PARK_MARINA.GPJ August 26, 2024

Aspect CONSULTING	South Park Marina - 190293		Monitoring Well Log	
	Project Address & Site Specific Location: 8604 Dallas Avenue South, Seattle, WA, 98108, 150 ft N of MW-9 along shoreline		Coordinates (SPN NAD83 ft): E:1274735.3 N:196115.8	Exploration Number: **MW-10**
Contractor: Holt	Equipment: Geoprobe 7800	Sampling Method: Percussion hammer	Ground Surface Elev. (NAVD88): 15.04'	Ecology Well Tag No. BND 374
Operator: Cody	Exploration Method(s): Direct push	Work Start/Completion Dates: 3/8/2021	Top of Casing Elev. (NAVD88): 14.54'	Depth to Water (Below GS): 8' (Static)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
0		8-in flush mount monument set in concrete		MW-10-0-1 *	PID=0.7 Sheen=Slight		Surface cover: 3 inch asphalt, 3 inch gravel base course	
							FILL SAND WITH SILT (SP-SM); appears loose, moist, grey-brown, fine-grained, subangular sand; low plasticity; trace fine to coarse, subangular gravel; trace brick fragments; no odor.	
		3/8-in hydrated bentonite chip seal, NSF 60			PID=0.7 Sheen=Slight			
		2-in, threaded schedule 40 PVC well casing		MW-10-3-5	PID=0.8 Sheen=Slight			
5	10	▽ 3/8/2021					SILTY SAND WITH GRAVEL (SM); appears loose, wet, grey-brown, fine- to medium-grained, subangular sand; fine to coarse, subangular gravel; low plasticity fines; no odor.	5
				MW-10-5.5-6.5 *	PID=0.7 Sheen=Slight		SAND WITH SILT (SP-SM); appears loose, moist, grey-brown, fine-grained, subangular sand; low plasticity fines; no odor.	
		10-20 silica sand filter pack						
		▼ 3/12/2021			PID=0.7 Sheen=No sheen			
		2-in, prepacked 0.010-in (10-slot) slotted schedule 40 PVC screen						
10	5				PID=0.8 Sheen=No sheen		SILTY SAND (SM); appears loose, wet, grey-brown, fine-grained, subangular sand; medium plasticity fines; no odor.	10
							TIDAL FLAT DEPOSITS SILT WITH SAND (ML); appears soft, wet, grey, low plasticity; fine-grained, subangular sand; no odor.	
					PID=0.7 Sheen=No sheen		SAND WITH SILT (SP-SM); appears loose, wet, brown, fine-grained, subangular sand; low plasticity fines; no odor.	
15	0	Boring backfilled with 3/8-in hydrated bentonite chips			PID=1 Sheen=No sheen		SANDY SILT (ML); appears soft, wet, grey, low plasticity; fine-grained, subangular sand; no odor.	15
					PID=0.8 Sheen=No sheen		SILTY SAND (SM); appears loose, wet, dark grey to black, fine-grained, subangular sand; low plasticity fines; no odor.	
					PID=0.6 Sheen=No sheen			
20	-5							20
					PID=0.8 Sheen=No sheen		**ALLUVIAL DEPOSITS** SAND (SP); appears loose, wet, black, fine- to medium-grained, subangular sand; trace fines; no odor	
				MW-10-23-25	PID=1 Sheen=No sheen			
25	-10						Bottom of exploration at 25 ft. bgs.	25
							Note: * - Sample submitted to laboratory for analysis. Remaining samples preserved and submitted to laboratory for archival pending results.	
30	-15							30

Legend

Sample Type
- ◯ No Soil Sample Recovery
- ▮▯ Continuous core 3" ID
- ▩ Grab sample

Water Level
- ▼ Static Water Level
- ▽ Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: David Unruh
Approved by: AJY

Exploration Log MW-10

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\190293_SOUTH_PARK_MARINA.GPJ August 26, 2024

South Park Marina - 190293

Monitoring Well Log

Aspect CONSULTING

Project Address & Site Specific Location	Coordinates (SPN NAD83 ft)	Exploration Number
8604 Dallas Avenue South, Seattle, WA, 98108, S of boat ramp along shoreline	E:1274632.4 N:196211.3	**MW-11**

Contractor	Equipment	Sampling Method	Ground Surface Elev. (NAVD88)	Ecology Well Tag No.
Holt	Geoprobe 7800	Percussion hammer	15.11'	BND 373
Operator	**Exploration Method(s)**	**Work Start/Completion Dates**	**Top of Casing Elev. (NAVD88)**	**Depth to Water (Below GS)**
Cody	Direct push	3/8/2021	14.61'	9.14' (Static)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
0	15	8-in flush mount monument set in concrete		MW-11-0-1 *	PID=0.3 Sheen=Slight		Surface cover: gravel base course, ~0.5 feet	0
							FILL SAND WITH GRAVEL (SW); appears loose, slightly moist, dark brown, fine- to coarse-grained, subangular sand; fine to coarse, subangular to subrounded gravel; trace fines; no odor.	
		3/8-in hydrated bentonite chip seal, NSF 60 2-in, threaded schedule 40 PVC well casing 10-20 silica sand filter pack		MW-11-3-5	PID=0.6 Sheen=Very slight		SILTY SAND WITH GRAVEL (SM); appears loose, moist, brownfine- to medium-grained, subangular sand; coarse, subangular gravel; low to medium plasticity fines; no odor.	
5	10	2-in, prepacked 0.010-in (10-slot) slotted schedule 40 PVC screen			PID=0.5 Sheen=No sheen			5
		▽ 3/8/2021		MW-11-6-7 *	PID=0.6 Sheen=No sheen		SILTY SAND (SM); appears loose, most, brown, fine-grained, subangular sand; low plasticity fines; no odor.	
							SANDY SILT (ML); appears soft, wet, brown, low plasticity; fine-grained, subangular sand; no odor.	
		▼ 3/12/2021			PID=0.9 Sheen=No sheen		SAND (SP); appears loose, wet, grey-brown, fine- to medium-grained, subangular sand; trace fines; no odor.	
10	5							10
							SANDY SILT (ML); appears soft, wet, grey to red-brown, medium plasticity; fine-grained, subangular sand; no odor.	
					PID=0.6 Sheen=No sheen			
					PID=0.7 Sheen=No sheen		SILTY SAND (SM); appears loose, wet, brown, fine-grained, subangular sand; medium plasticity fines; no odor.	
15	0	Boring backfilled with 3/8-in hydrated bentonite chips					**TIDAL FLAT DEPOSITS** SANDY SILT (ML); appears soft, wet, grey, medium plasticity; fine-grained, subangular sand; trace organic matter; slight sulfur-like odor.	15
					PID=0.5 Sheen=No sheen			
				MW-11-18-20	PID=0.5 Sheen=No sheen		**ALLUVIAL DEPOSITS** SAND (SP); appears loose, wet, black, fine- to medium-grained, subangular sand; trace fines; no odor.	
20	-5						Bottom of exploration at 20 ft. bgs.	20
							Note: * - Sample submitted to laboratory for analysis. Remaining samples preserved and submitted to laboratory for archival pending results.	
25	-10							25
30	-15							30

Legend

Sample Type
- ◯ No Soil Sample Recovery
- ▮▯ Continuous core 3" ID
- ▩ Grab sample

Water Level
- ▼ Static Water Level
- ▽ Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: David Unruh
Approved by: AJY

Exploration Log MW-11

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\190293_SOUTH_PARK_MARINA.GPJ August 26, 2024

Aspect CONSULTING	South Park Marina - 190293		Monitoring Well Log	
	Project Address & Site Specific Location: 8604 Dallas Avenue South, Seattle, WA, 98108, NW corner of South Park Marina		Coordinates (SPN NAD83 ft): E:1274618.11 N:196225.56	Exploration Number: **MW-11D**
Contractor: Holt	Equipment: Geoprobe 7822DT	Sampling Method: Percussion hammer	Ground Surface Elev. (NAVD88): 15.44'	Ecology Well Tag No. BPW-034
Operator: Mike Running	Exploration Method(s): Direct push	Work Start/Completion Dates: 9/15/2022	Top of Casing Elev. (NAVD88): 15.03'	Depth to Water (Below GS): 10' (ATD)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
	15	8-in flush mount monument set in concrete		MW-11D-0-1	PID=0.1 Sheen=Slight		Surface cover: gravel base course	
					PID=0.1 Sheen=Slight		**FILL** SILTY SAND WITH GRAVEL (SM); slightly moist, brown; little silt; fine to coarse sand; fine to coarse subangular to angular gravel; no chemical-like odor.	
		3/8-in hydrated bentonite chip seal, NSF 60					SAND WITH SILT (SP-SM); slightly moist, light brown; few silt; fine sand; thin 1 to 2-mm laminae present with finer sand; trace roots present; no chemical-like odor.	
5	10	2-in, threaded schedule 40 PVC well casing		MW-11D-5-6	PID=0.3 Sheen=Slight		SILTY SAND (SM); moist, brown; little silt; fine sand; 1 to 2-mm diameter roots; no chemical-like odor.	5
					PID=0.2 Sheen=Slight		SAND WITH SILT (SP-SM); moist, brown; few silt; fine and medium sand; 2-mm diameter roots; no chemical-like odor.	
					PID=0.3 Sheen=Slight		SILTY SAND (SM); moist, brown; little silt; fine sand; no chemical-like odor.	
							SAND (SP); moist, brown-dark gray; fine to medium sand; trace silt; trace red sand; no chemical-like odor.	
10	5	▽ 9/15/2022		MW-11D-10-11	PID=0.3 Sheen=Slight			10
					PID=0.2 Sheen=None		SILT (ML); wet, brown yellow; trace fine sand; low plasticity; 1mm laminae with orange tinge; no chemical-like odor.	
		12/20 silica sand filter pack			PID=0.4 Sheen=None		1in layer of Silty SAND (SM). Becomes gray brown and grades to dark gray.	
		Native sand heave/slough			PID=0.4 Sheen=None		**TIDAL FLAT DEPOSITS** SILTY SAND (SM); wet, dark gray; little silt; fine sand; no chemical-like odor.	
15	0			MW-11D-15-16	PID=0.2 Sheen=None		SILT (ML); wet, dark gray; low-medium plasticity; no chemical-like odor.	15
					PID=0.3 Sheen=None		SILTY SAND (SM); wet, dark gray; fine sand; some silt; no chemical-like odor.	
					PID=0.3 Sheen=None		SAND WITH SILT (SP-SM); wet, red brown-dark gray; fine to medium sand; orange red silt; trace red sand; no chemical-like odor.	
					PID=0.3 Sheen=None		**ALLUVIAL DEPOSITS** SAND (SP); wet, dark gray;trace red sand; no chemical-like odor.	
20	-5	2-in, prepacked 0.010-in (10-slot) slotted schedule 40 PVC screen		MW-11D-20-21	PID=0.3 Sheen=None			20
					PID=0.3 Sheen=None		SAND WITH SILT (SP-SM); wet, dark gray with orange color tinge; fine to medium sand; yellow orange silt; no chemical-like odor. With fine angular gravel for 1/2-in. Becomes red brown.	
					PID=0.3 Sheen=None			
					PID=0.4 Sheen=None		SAND (SP); wet, dark gray; fine to coarse sand; trace silt with orange color; no chemical-like odor.	
				MW-11D-23.5-24.5	PID=0.4 Sheen=None			
25	-10						Bottom of exploration at 25 ft. bgs.	25
30	-15							30

Legend

Sample Type
- ◯ No Soil Sample Recovery
- ◧ Continuous core 3" ID
- ▩ Grab sample

Water Level
- ▽ Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: DJM
Approved by: AJY

Exploration Log MW-11D
Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\190293_SOUTH_PARK_MARINA.GPJ August 26, 2024

South Park Marina - 190293

Monitoring Well Log

Aspect CONSULTING

Project Address & Site Specific Location	Coordinates (SPN NAD83 ft)	Exploration Number
8604 Dallas Avenue South, Seattle, WA, 98108, E of E wall of Tire Factory	E:1274617 N:196055.2	**MW-12**

Contractor	Equipment	Sampling Method	Ground Surface Elev. (NAVD88)	Ecology Well Tag No.
Holt	Geoprobe 7800	Percussion hammer	15.97'	BND 369
Operator	**Exploration Method(s)**	**Work Start/Completion Dates**	**Top of Casing Elev. (NAVD88)**	**Depth to Water (Below GS)**
Cody	Direct push	3/3/2021	15.4'	9.27' (Static)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
0	15	8-in flush mount monument set in concrete		MW-12-0-1 *	PID=0.9 Sheen=Slight		Surface cover: asphalt, 3 inches	0
							FILL SAND WITH SILT AND GRAVEL (SP-SM); appears loose, moist, grey-brown, fine- to coarse-grained, subangular to subrounded sand; fine to coarse, subrounded gravel; low plasticity fines; no odor.	
		3/8-in hydrated bentonite chip seal, NSF 60			PID=1 Sheen=Slight			
		2-in, threaded schedule 40 PVC well casing		MW-12-3-5 *	PID=1 Sheen=Slight		SANDY SILT (ML); appears soft, moist, grey, low plasticity; fine- to medium-grained, subangular sand; no odor.	
5	10				PID=2 Sheen=Slight		SAND (SP); appears loose, moist, grey-brown, fine- to medium-grained, subangular sand; trace fine to coarse, subrounded gravel; trace fines; no odor.	5
		10-20 silica sand filter pack 2-in, prepacked 0.010-in (10-slot) slotted schedule 40 PVC screen			PID=1 Sheen=Slight		SILTY SAND (SM); appears loose, moist, grey-brown, fine- to medium-grained, subangular sand; low plasticity fines; no odor	
		▼ 3/12/2021 ▽ 3/3/2021					SAND (SP); appears loose, moist, grey-brown, fine- to medium-grained, subangular sand; trace fines; no odor.	
10	5			MW-12-9.5-10.5	PID=1 Sheen=No sheen			10
					PID=2 Sheen=No sheen		**TIDAL FLAT DEPOSITS** SILT (ML); appears soft, wet, grey, low plasticity; trace organic matter; no odor.	
					PID=2 Sheen=No sheen		**ALLUVIAL DEPOSITS** SAND (SP); appears loose, wet, grey-brown, fine- to medium-grained, subangular sand; trace fines; no odor.	
15	0	Boring backfilled with 3/8-in hydrated bentonite chips			PID=2 Sheen=No sheen			15
					PID=1 Sheen=No sheen			
				MW-12-18-20	PID=1 Sheen=No sheen			
20	-5						Bottom of exploration at 20 ft. bgs.	20
							Note: * - Sample submitted to laboratory for analysis. Remaining samples preserved and submitted to laboratory for archival pending results.	
25	-10							25
30	-15							30

Legend

Sample Type
- ◯ No Soil Sample Recovery
- ◫ Continuous core 3" ID
- ⊠ Grab sample

Water Level
- ▼ Static Water Level
- ▽ Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: David Unruh
Approved by: AJY

Exploration Log MW-12

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\190293_SOUTH_PARK_MARINA.GPJ August 26, 2024

South Park Marina - 190293

Monitoring Well Log

Aspect CONSULTING

Project Address & Site Specific Location	Coordinates (SPN NAD83 ft)	Exploration Number
8604 Dallas Avenue South, Seattle, WA, 98108, NW of NW corner of Tire Factory	E:1274529.4 N:195881.9	**MW-13**

Contractor	Equipment	Sampling Method	Ground Surface Elev. (NAVD88)	Ecology Well Tag No.
Holt	Geoprobe 7800	Percussion hammer	18.88'	BND 367
Operator	**Exploration Method(s)**	**Work Start/Completion Dates**	**Top of Casing Elev. (NAVD88)**	**Depth to Water (Below GS)**
Cody	Direct push	3/2/2021	18.36'	12.88' (Static)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
0		8-in flush mount monument set in concrete		MW-13-0-1 *	PID=2 Sheen=Slight		Surface cover: asphalt, ~0.5 feet	
							FILL SAND (SP); appears loose, moist, grey-brown, fine- to primarily medium-grained, subangular sand; trace fines; no odor.	
					PID=2 Sheen=Slight			
		3/8-in hydrated bentonite chip seal, NSF 60		MW-13-3-5 *	PID=3 Sheen=Slight		SAND WITH SILT (SP-SM); appears loose, moist, light grey, fine- to medium-grained, subangular sand; low plasticity fines; no odor.	
5	15	2-in, threaded schedule 40 PVC well casing					SAND (SP); appears loose, moist, grey-brown, fine- to primarily medium-grained sand; trace fines; no odor.	5
					PID=3 Sheen=Slight		SAND WITH SILT (SP-SM); appears loose, moist, brown, fine-grained, subangular sand; low plasticity fines; no odor.	
	10	10-20 silica sand filter pack						
10		▽ 3/2/2021		MW-13-9.5-10.5 *	PID=10 Sheen=Slight		Becomes wet.	10
		▼ 3/12/2021			PID=8 Sheen=Slight		SILTY SAND (SM); appears loose, wet, grey-brown, fine-grained, subangular sand; low to medium plasticity fines; no odor.	
	5	2-in, prepacked 0.010-in (10-slot) slotted schedule 40 PVC screen					**TIDAL FLAT DEPOSITS** SANDY SILT (ML); appears soft, wet, grey, low to medium plasticity fines; fine-grained, subangular sand; slight sulfur-like odor.	
15							SAND WITH SILT (SP-SM); appears loose, wet, grey, fine- to medium-grained, subangular sand; low plasticity fines; trace organic matter; very slight sulfur-like odor.	15
		Boring backfilled with 3/8-in hydrated bentonite chips			PID=9 Sheen=Slight			
	0			MW-13-18-19.5 *	PID=7 Sheen=No sheen		SANDY SILT (ML); appears soft, moist, grey, medium plasticity; fine-grained, subangular sand; slight sulfur-like odor.	
20							SAND WITH SILT (SP-SM); appears loose, wet, grey, fine-grained, subangular sand; low plasticity fines; slight sulfur-like odor.	20
					PID=5 Sheen=No sheen		**ALLUVIAL DEPOSITS** SAND (SP); appears loose, wet, grey-brown, fine- to primarily medium-grained, subangular sand; trace fines; no odor.	
	-5				PID=1 Sheen=No sheen			
25					PID=2 Sheen=No sheen		Bottom of exploration at 25 ft. bgs.	25
							Note: * - Sample submitted to laboratory for analysis. Remaining samples preserved and submitted to laboratory for archival pending results.	
	-10							
30								30

Legend

Sample Type
- ◯ No Soil Sample Recovery
- ▮▯ Continuous core 3" ID
- ▩ Grab sample

Water Level
- ▼ Static Water Level
- ▽ Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: David Unruh
Approved by: AJY

Exploration Log MW-13

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\190293_SOUTH_PARK_MARINA.GPJ August 26, 2024

Aspect CONSULTING	South Park Marina - 190293		Monitoring Well Log	
	Project Address & Site Specific Location: 8604 Dallas Avenue South, Seattle, WA, 98108, W of South Park Tire Factory Shop		Coordinates (SPN NAD83 ft): E:1274524.45 N:195887.03	Exploration Number: **MW-13D**
Contractor: Holt	Equipment: Terra Sonic 150CC	Sampling Method: Rotary core	Ground Surface Elev. (NAVD88): 18.72'	Ecology Well Tag No. BPW-028
Operator: Quaid Curtis	Exploration Method(s): Sonic	Work Start/Completion Dates: 9/23/2022	Top of Casing Elev. (NAVD88): 18.49'	Depth to Water (Below GS): 11' (ATD)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
		8-in flush mount monument set in concrete		MW-13D-0-1	PID=0 Sheen=None		Surface cover: 2 inches asphalt, 4 inches crushed gravel and base course	
					PID=0 Sheen=None		**FILL** SAND WITH SILT (SP-SM); moist, dark brown; fine to medium sand; little silt, cohesive, nonplastic; no chemical-like odor.	
		3/8-in hydrated bentonite chip seal, NSF 60			PID=0.5 Sheen=None			
	15				PID=0 Sheen=None		SILTY SAND (SM); moist, brown; fine to medium sand; some silt, cohesive, nonplastic; no chemical-like odor.	
5		2-in, threaded schedule 40 PVC well casing		MW-13D-4-5	PID=0 Sheen=None		SAND (SP); moist, dark gray brown; fine to medium sand; trace silt; noncohesive; no chemical-like odor.	5
					PID=0.1 Sheen=None			
					PID=0 Sheen=None			
					PID=0 Sheen=None			
	10				PID=0 Sheen=None		SILTY SAND (SM); moist, brown; fine to medium sand; some silt, cohesive, nonplastic; no chemical-like odor.	
10		9/23/2022			PID=0 Sheen=None		**TIDAL FLAT DEPOSITS** SILT (ML); moist, brown with red mottling and oxidation, some gray mottled layers; low plasticity, cohesive; trace to little, fine sand; no chemical-like odor. 2-in fine sand lens, light gray, wet. Density appears to decrease, decreasing sand content with depth, brown.	10
					PID=0.1 Sheen=None			
				MW-13D-11.51-12.51	PID=3.5 Sheen=None			
					PID=2.1 Sheen=None			
	5			MW-13D-13-14	PID=1.8 Sheen=None			
15					PID=2.4 Sheen=None		SILT WITH SAND (ML); wet, brown gray; low plasticity, cohesive; some, fine sand; no chemical-like odor. Slight platy sheen. Becomes dark gray with increased fine sand content and trace roots. Two 0.5-in wide 4-in long wood fragments.	15
					PID=4.5 Sheen=None			
					PID=5.6 Sheen=Slight			
					PID=16.6 Sheen=None			
	0			MW-13D-18-19	PID=17.3 Sheen=None			
20					PID=16.4 Sheen=None		SILTY SAND (SM); wet, dark gray with red oxidation; fine sand; no chemical-like odor. Becomes loose, wet, dark gray, with some silt, trace roots, and slight chemical-like odor.	20
					PID=0.5 Sheen=None			
					PID=1.5 Sheen=None			
					PID=1.1 Sheen=None		SILT (ML); wet, dark gray; low plasticity, cohesive; trace fine sand; slight chemical-like odor.	
	-5			MW-13D-23-24	PID=1.1 Sheen=None			
25					PID=0.7 Sheen=None		SILT WITH SAND (ML); wet, dark gray; low plasticity, cohesive; fine sand; slight chemical-like odor.	25
					PID=0.7 Sheen=None			
					PID=0.2 Sheen=None		**ALLUVIAL DEPOSITS** SAND (SP); wet, black; fine to coarse sand; trace silt; noncohesive; no chemical-like odor.	
		12/20 silica sand filter pack			PID=0 Sheen=None			
	-10			MW-13D-28-29	PID=0.2 Sheen=None			
30					PID=1.1 Sheen=None			30
		2-in, prepacked 0.010-in (10-slot) slotted schedule 40 PVC screen			PID=0.9 Sheen=None			
					PID=1.1 Sheen=None			
				MW-13D-32-33	PID=1.1 Sheen=None			
	-15				PID=3.2			

Legend

Sample Type
- No Soil Sample Recovery
- Continuous core 4" ID
- Grab sample

Water Level
- Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: AJY
Approved by: SJG

Exploration Log MW-13D
Sheet 1 of 2

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\190293_SOUTH_PARK_MARINA.GPJ August 26, 2024

Aspect CONSULTING	South Park Marina - 190293		Monitoring Well Log	
	Project Address & Site Specific Location 8604 Dallas Avenue South, Seattle, WA, 98108, W of South Park Tire Factory Shop		*Coordinates (SPN NAD83 ft)* E:1274524.45 N:195887.03	*Exploration Number* **MW-13D**
Contractor Holt	*Equipment* Terra Sonic 150CC	*Sampling Method* Rotary core	*Ground Surface Elev. (NAVD88)* 18.72'	Ecology Well Tag No. BPW-028
Operator Quaid Curtis	*Exploration Method(s)* Sonic	*Work Start/Completion Dates* 9/23/2022	*Top of Casing Elev. (NAVD88)* 18.49'	*Depth to Water (Below GS)* 11' (ATD)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
35					Sheen=None			35
					PID=0.5 Sheen=None		**GLACIAL TILL** SILTY SAND (SM); wet, gray; fine to medium grained; trace silt; cohesive; no chemical-like odor.	
		Native sand heave/slough		MW-13D-35.5-36.5	PID=0 Sheen=None		Appears loose and weathered at contact.	
	-20				PID=0 Sheen=None		SANDY SILT WITH GRAVEL (ML); appears very stiff to hard, moist, gray; low plasticity, cohesive; little, fine to coarse sand; some, fine to coarse gravel; copious shell fragments; sulfur-like odor.	
					PID=0 Sheen=None			
40				MW-13D-39-40	PID=0 Sheen=None			40
							Bottom of exploration at 40 ft. bgs.	
	-25							
45								45
	-30							
50								50
	-35							
55								55
	-40							
60								60
	-45							
65								65

Legend

Sample Type
- ◯ No Soil Sample Recovery
- ▮▮ Continuous core 4" ID
- ▩ Grab sample

Water Level
- ▽ Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: AJY
Approved by: SJG

Exploration Log MW-13D
Sheet 2 of 2

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\190293_SOUTH_PARK_MARINA.GPJ August 26, 2024

Aspect CONSULTING	South Park Marina - 190293		Monitoring Well Log	
	Project Address & Site Specific Location 8604 Dallas Avenue South, Seattle, WA, 98108, S of W Residence		*Coordinates (SPN NAD83 ft)* E:1274742.9 N:195834.1	*Exploration Number* **MW-14**
Contractor Holt	*Equipment* Geoprobe 7800	*Sampling Method* Percussion hammer	*Ground Surface Elev. (NAVD88)* 19.22'	Ecology Well Tag No. BND 366
Operator Cody	*Exploration Method(s)* Direct push	*Work Start/Completion Dates* 3/1/2021 to 3/2/2021	*Top of Casing Elev. (NAVD88)* 18.32'	*Depth to Water (Below GS)* 9.99' (Static)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
		8-in flush mount monument set in concrete		MW-14A-0-1 *	PID=0.3 Sheen=Organic		Surface cover: gravel base course, ~0.7 feet	
				0-5 ft cleared with vaccum truck			**FILL** SAND WITH SILT AND GRAVEL (SP-SM); appears loose, moist, grey-brown, fine- to coarse-grained, subangular sand; fine to coarse, subangular to subrounded gravel; low plasticity fines; no odor	
		3/8-in hydrated bentonite chip seal, NSF 60					SAND (SP); appears loose, moist, grey-brown, fine- to medium-grained, subangular sand; trace fine to coarse gravel; trace silt; no chemical-like odor.	
5	15	2-in, threaded schedule 40 PVC well casing		MW-14-4.5-5 *	PID=0.1 Sheen=Organic			5
					PID=0.1 Sheen=Organic			
	10				PID=0.1 Sheen=Organic			
10		3/12/2021						10
		3/1/2021		MW-14-11.5-12.5	PID=0.2 Sheen=No sheen			
		10-20 silica sand filter pack		MW-14-12.5-15	PID=0.2 Sheen=No sheen			
	5	2-in, prepacked 0.010-in (10-slot) slotted schedule 40 PVC screen						
15							**TIDAL FLAT DEPOSITS** SANDY SILT (ML); appears soft, wet, dark brown, low plasticity; trace fine-grained, subangular sand; some organic matter; slight sulfur-like odor.	15
		Boring backfilled with 3/8-in hydrated bentonite chips			PID=0.1 Sheen=No sheen			
				MW-14-18-19.5	Sheen=No sheen			
	0							
20				MW-14-19.5-20	PID=0.5		**ALLUVIAL DEPOSITS** SAND (SP); appears loose, wet, dark grey, fine- to primarily medium-grained, subangular sand; trace fines; no chemical-like odor.	20
							Bottom of exploration at 20 ft. bgs.	
							Note: * - Sample submitted to laboratory for analysis. Remaining samples preserved and submitted to laboratory for archival pending results.	
	-5							
25								25
	-10							
30								30

Legend

Sample Type
- ◯ No Soil Sample Recovery
- Grab sample
- Continuous core 3" ID

Water Level
- Static Water Level
- Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: Andrew Yonkofski
Approved by: SJG

Exploration Log MW-14

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\190293_SOUTH_PARK_MARINA.GPJ August 26, 2024

South Park Marina - 190293

Monitoring Well Log

Aspect CONSULTING

Project Address & Site Specific Location	Coordinates (SPN NAD83 ft)	Exploration Number
8604 Dallas Avenue South, Seattle, WA, 98108, W of boat maintenance building	E:1274881.1 N:195788.5	**MW-15**

Contractor	Equipment	Sampling Method	Ground Surface Elev. (NAVD88)	Ecology Well Tag No.
Holt	Geoprobe 7800	Percussion hammer	17.13'	BND 368

Operator	Exploration Method(s)	Work Start/Completion Dates	Top of Casing Elev. (NAVD88)	Depth to Water (Below GS)
Cody	Direct push	3/3/2021	16.57'	9.58' (Static)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
0	15	8-in flush mount monument set in concrete		MW-15-0-1 *	PID=0.8 Sheen=No sheen		Surface cover: asphalt, 3 inches	0
				MW-15-1-1.5			**FILL** SAND (SP); appears loose, moist, grey-brown, fine- to medium-grained, subangular sand; trace fines; trace brick fragments above 0.5 ft; no odor.	
		3/8-in hydrated bentonite chip seal, NSF 60			PID=0.3 Sheen=Very slight			
				MW-15-3-5 *	PID=1 Sheen=Very slight			
5		2-in, threaded schedule 40 PVC well casing			PID=1 Sheen=Very slight			5
	10				PID=1 Sheen=Slight			
		▽ 3/3/2021		MW-15-8-9	PID=1 Sheen=No sheen		Becomes wet.	
		▼ 3/12/2021		MW-15-9-9.5	PID=1 Sheen=No sheen			
10		10-20 silica sand filter pack					SILTY SAND (SM); appears loose, wet, grey, fine- to medium-grained, subangular sand; low plasticity fines; trace organic fragments; no odor.	10
	5	2-in, prepacked 0.010-in (10-slot) slotted schedule 40 PVC screen					SILT WITH SAND (ML); appears soft, wet, grey, low to medium plasticity; fine-grained, subangular sand; trace organic matter; slight sulfur-like odor.	
					PID=0.9 Sheen=No sheen		**TIDAL FLAT DEPOSITS** ORGANIC SILT (OL); appears soft, wet, grey, medium plasticity; some organic matter consisting of plant debris and silt-sized organic particles; moderate sulfur-like odor.	
15								15
	0	Boring backfilled with 3/8-in hydrated bentonite chips			PID=0.7 Sheen=No sheen		SILT (ML); appears soft, wet, grey-brown, medium plasticity; moderate sulfur-like odor.	
				MW-15-18.5-20	PID=0.9 Sheen=No sheen		**ALLUVIAL DEPOSITS** SAND (SP); appears loose, wet, black, fine- to medium-grained, subangular sand; trace fines; slight sulfur-like odor.	
20	-5						Bottom of exploration at 20 ft. bgs.	20
							Note: * - Sample submitted to laboratory for analysis. Remaining samples preserved and submitted to laboratory for archival pending results.	
25	-10							25
30	-15							30

Legend

Sample Type
- ◯ No Soil Sample Recovery
- ◧ Continuous core 3" ID
- ▩ Grab sample

Water Level
- ▼ Static Water Level
- ▽ Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: David Unruh
Approved by: AJY

Exploration Log MW-15

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\190293_SOUTH_PARK_MARINA.GPJ August 26, 2024

Aspect CONSULTING	South Park Marina - 190293		Monitoring Well Log	
	Project Address & Site Specific Location: 8604 Dallas Avenue South, Seattle, WA, 98108, N of historic A&B Barrel Building		Coordinates (SPN NAD83 ft): E:1275074.53 N:195745.57	Exploration Number: **MW-16**
Contractor: Holt	Equipment: Terra Sonic 150CC	Sampling Method: Rotary core	Ground Surface Elev. (NAVD88): 16.3'	Ecology Well Tag No. BPW-026
Operator: Quaid Curtis	Exploration Method(s): Sonic	Work Start/Completion Dates: 9/23/2022	Top of Casing Elev. (NAVD88): 16.04'	Depth to Water (Below GS): 10.5' (ATD)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
0	15	Flush-mount well box in concrete					Surface cover: asphalt	0
		2 inch Sch 40 PVC casing		MW-16-0-1	PID=0 Sheen=None		**FILL** SAND WITH SILT AND GRAVEL (SP-SM); dry, brown; fine to coarse sand; fine subrounded to subangular gravel; noncohesive; no chemical-like odor.	
				MW-16-1.5-2	PID=0.8 Sheen=None		SAND WITH SILT (SP-SM); dry, brown; fine to coarse sand; noncohesive; 1/8-in yellow, rubbery material; no chemical-like odor.	
5	10	Medium bentonite chips			PID=0 Sheen=None		SAND (SP); dry, light brown; fine to coarse sand, trace silt, noncohesive; no chemical-like odor.	5
		12/20 sand filter pack			PID=0 Sheen=None		Becomes brown	
		2 inch Sch 40 prepacked screen 0.010 inch slot size		MW-16-5.5-6.5	PID=0 Sheen=None		SAND WITH GRAVEL (SP); brown, dry; fine to medium sand; trace subrounded to subangular gravel; noncohesive; no chemical-like odor.	
					PID=0 Sheen=None		SAND (SP); dry, brown; fine to medium sand; trace silt; noncohesive; no chemical-like odor.	
					PID=0 Sheen=Slight		Becomes moist	
10	5	▽ 9/23/2022			PID=0 Sheen=None			10
					PID=0 Sheen=None		Bottom of exploration at 10.5 ft. bgs.	
15	0							15
20	-5							20
25	-10							25
30	-15							30

Legend

Sample Type
- ◯ No Soil Sample Recovery
- ▮▯ Continuous core 4" ID
- ☒ Grab sample

Water Level
- ▽ Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: AJY
Approved by: SJG

Exploration Log MW-16

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\190293_SOUTH_PARK_MARINA.GPJ August 26, 2024

Aspect CONSULTING	South Park Marina - 190293		Monitoring Well Log	
	Project Address & Site Specific Location: 8604 Dallas Avenue South, Seattle, WA, 98108, N of historic A&B Barrel Building		Coordinates (SPN NAD83 ft): E:1275071.73 N:195747.39	Exploration Number: **MW-16D**
Contractor: Holt	Equipment: Terra Sonic 150CC	Sampling Method: Rotary core	Ground Surface Elev. (NAVD88): 16.23'	Ecology Well Tag No. BPW-027
Operator: Quaid Curtis	Exploration Method(s): Sonic	Work Start/Completion Dates: 9/22/2022 to 9/23/2022	Top of Casing Elev. (NAVD88): 15.86'	Depth to Water (Below GS): 10.5' (ATD)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
		8-in flush mount monument set in concrete		Shallow samples collected in MW-16	PID=0.2 Sheen=Slight		Surface cover: asphalt	
	15				PID=0.3 Sheen=Slight		**FILL** SAND WITH SILT AND GRAVEL (SP-SM); moist, brown; fine to coarse sand; fine, subrounded to subangular gravel; slight platy sheen; no chemical-like odor.	
		3/8-in hydrated bentonite chip seal, NSF 60			PID=0.4 Sheen=Slight			
					PID=0.3 Sheen=None		SAND WITH SILT (SP-SM); moist, brown; fine to coarse sand; trace fine, subrounded gravel; trace wood debris; slight platy sheen; no chemical-like odor.	
5		2-in, threaded schedule 40 PVC well casing			PID=0.3 Sheen=None			5
	10							
10		▽ 9/23/2022						10
	5			MW-16D-10.5-11.5	PID=0.3 Sheen=None		**TIDAL FLAT DEPOSITS** SILT (ML); wet, dark brown; low plasticity; trace fine sand; trace wood debris; oxidized layers between 11 and 12 ft bgs; no chemical-like odor.	
					PID=0.5 Sheen=None			
					PID=0.3 Sheen=None		**ALLUVIAL DEPOSITS** SAND WITH SILT (SP-SM); moist, dark brown; fine sand; oxidized layers down to 14 ft bgs; no chemical-like odor. Becomes with fine to coarse sand and decreasing silt content with depth.	
		12/20 silica sand filter pack			PID=0.2 Sheen=None			
15					PID=0.2 Sheen=None			15
	0	2-in, prepacked 0.010-in (10-slot) slotted schedule 40 PVC screen			PID=0.3 Sheen=None			
					PID=0.2 Sheen=None			
				MW-16D-17-18	PID=0.1 Sheen=None			
					PID=0.1 Sheen=None			
				MW-16D-19-20	PID=0.1 Sheen=None		2-in layer of layered organic matter with oxidized sand above.	
20					PID=0 Sheen=None		**GLACIAL TILL** SANDY SILT WITH GRAVEL (ML); appears hard, moist, gray; low plasticity; little, fine sand; few, fine to coarse, rounded gravel; trace small cobbles; cohesive; no chemical-like odor.	20
	-5				PID=0 Sheen=None			
					PID=0 Sheen=None			
		Boring backfilled with 3/8-in hydrated bentonite chips, NSF 60.			PID=0 Sheen=None			
					PID=0 Sheen=None			
				MW-16D-24-25	PID=0 Sheen=None		Multiple 3-in cobbles.	
25					PID=0 Sheen=None			25
	-10				PID=0 Sheen=None			
					PID=0 Sheen=None			
					PID=0 Sheen=None			
					PID=0 Sheen=None			
				MW-16D-29-30	PID=0.1 Sheen=None			
30							Bottom of exploration at 30 ft. bgs.	30
	-15							

Legend

Sample Type
- ◯ No Soil Sample Recovery
- ▯ Continuous core 4" ID
- ☒ Grab sample

Water Level
- ▽ Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: MMR
Approved by: AJY

Exploration Log MW-16D
Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\190293_SOUTH_PARK_MARINA.GPJ August 26, 2024

Aspect CONSULTING	South Park Marina - 190293		Monitoring Well Log	
	Project Address & Site Specific Location: 8604 Dallas Avenue South, Seattle, WA, 98108, E of main entrance to South Park Marina		Coordinates (SPN NAD83 ft): E:1274845.20 N:195731.75	Exploration Number: **MW-17**
Contractor: Holt	Equipment: Geoprobe 7822DT	Sampling Method: Percussion hammer	Ground Surface Elev. (NAVD88): 19.25'	Ecology Well Tag No. BPW-039
Operator: Mike Running	Exploration Method(s): Direct push	Work Start/Completion Dates: 9/14/2022 to 9/16/2022	Top of Casing Elev. (NAVD88): 18.97'	Depth to Water (Below GS): 12' (ATD)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
0	19.25	8-in flush mount monument set in concrete		MW-17-0-1	PID=0.1 Sheen=None		Surface cover: asphalt and gravel base course, ~0.5 feet	0
							FILL SILTY SAND (SM); appears very loose, dry, brown; some silt; fine to medium sand; trace, fine, subrounded, gravel; no chemical-like odor. At 2 in bgs, broken glass fragments. At 6 in bgs, roots. At 2 ft bgs, roots and wood fibers. Large roots.	
	15	3/8-in hydrated bentonite chip seal, NSF 60						
5		2-in, threaded schedule 40 PVC well casing		MW-17-5-6	PID=0.3 Sheen=Slight PID=0.1 Sheen=None PID=0 Sheen=None		Excavated to 5 ft bgs using air knife and vacuum truck. SAND WITH SILT (SP-SM); brown, slightly moist; fine to medium sand; trace, red, medium sand; trace brick fragments; no chemical-like odor. Becomes gray brown.	5
	10							
10		12/20 silica sand filter pack ▽ 9/16/2022			PID=0 Sheen=None PID=0 Sheen=None		Becomes moist and dark gray.	10
				MW-17-12-13	PID=0 Sheen=None		Becomes wet with fine to coarse sand.	
	5							
15		2-in, prepacked 0.010-in (10-slot) slotted schedule 40 PVC screen		MW-17-15-16 MW-17-16.25-17.25	PID=0.1 Sheen=None PID=0 Sheen=None PID=0 Sheen=None		**ALLUVIAL DEPOSITS** SAND WITH SILT (SP-SM); dark gray, wet; fine to medium sand; trace, red, medium sand; no chemical-like odor. 6-in layer with orange oxidation, increased silt content, and trace fine gravel.	15
	0	Boring backfilled with 3/8-in hydrated bentonite chips						
20							Bottom of exploration at 20 ft. bgs.	20
	-5							
25								25
	-10							
30								30

Legend

Sample Type
- ◯ No Soil Sample Recovery
- ▮▮ Continuous core 3" ID
- Grab sample

Water Level
- ▽ Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: AJY/DJM
Approved by: SJG

Exploration Log MW-17
Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\190293_SOUTH_PARK_MARINA.GPJ August 26, 2024

Aspect CONSULTING	South Park Marina - 190293		Monitoring Well Log	
	Project Address & Site Specific Location 8604 Dallas Avenue South, Seattle, WA, 98108, S corner of South Park Marina		*Coordinates (SPN NAD83 ft)* E:1275041.82 N:195651.02	*Exploration Number* **MW-18**
Contractor Holt	*Equipment* Geoprobe 7822DT	*Sampling Method* Percussion hammer	*Ground Surface Elev. (NAVD88)* 20.14'	Ecology Well Tag No. BPW-030
Operator Mike Running	*Exploration Method(s)* Direct push	*Work Start/Completion Dates* 9/13/2022	*Top of Casing Elev. (NAVD88)* 19.63'	*Depth to Water (Below GS)* 13.5' (ATD)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
0	20	8-in flush mount monument set in concrete		Shallow samples collected in MW-18D	PID=0.8 Sheen=None		Surface cover: gravel, ~1 foot	0
							FILL SILT (ML); moist, light brown; low to medium plasticity; no chemical-like odor.	
		3/8-in hydrated bentonite chip seal, NSF 60					SAND WITH SILT (SP-SM); moist, gray brown; fine to medium sand; no chemical-like odor.	
5	15	2-in, threaded schedule 40 PVC well casing 12/20 silica sand filter pack			PID=0.5 Sheen=Slight platy		SILTY SAND (SM); moist, gray brown; little silt; fine sand; no chemical-like odor.	5
					PID=0.8 Sheen=Slight platy			
					PID=0.8 Sheen=Slight platy		SAND WITH SILT (SP-SM); moist, gray brown; fine to medium sand; no chemical-like odor.	
		2-in, prepacked 0.010-in (10-slot) slotted schedule 40 PVC screen					**ALLUVIAL DEPOSITS** SAND (SP); moist, dark gray; fine to medium sand; trace red sand; no chemical-like odor. 1-in SILT layer.	
10	10				PID=0.9 Sheen=None			10
					PID=0.7 Sheen=None			
					PID=1.1 Sheen=None			
		▽ 9/13/2022		MW-18-13-14	PID=0.8 Sheen=None			
		Boring backfilled with 3/8-in hydrated bentonite chips, NSF 60.			PID=8.5 Sheen=None		1-in Sandy SILT layer.	
15	5						Bottom of exploration at 15 ft. bgs.	15
20	0							20
25	-5							25
30	-10							30

Legend

Sample Type
- ◯ No Soil Sample Recovery
- ◧ Continuous core 3" ID
- ◩ Grab sample

Water Level
- ▽ Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: DJM
Approved by: AJY

Exploration Log MW-18

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\190293_SOUTH_PARK_MARINA.GPJ August 26, 2024

Aspect CONSULTING	South Park Marina - 190293		Monitoring Well Log	
	Project Address & Site Specific Location: 8604 Dallas Avenue South, Seattle, WA, 98108, S corner of South Park Marina		Coordinates (SPN NAD83 ft): E:1275040.12 N:195647.58	Exploration Number: **MW-18D**
Contractor: Holt	Equipment: Geoprobe 7822DT	Sampling Method: Percussion hammer	Ground Surface Elev. (NAVD88): 20.31'	Ecology Well Tag No. BPW-029
Operator: Mike Running	Exploration Method(s): Direct push	Work Start/Completion Dates: 9/12/2022	Top of Casing Elev. (NAVD88): 19.88'	Depth to Water (Below GS): 15' (ATD)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
0	20	8-in flush mount monument set in concrete		MW-18D-0-1	PID=0.9 Sheen=None PID=1 Sheen=None PID=1.4 Sheen=None		Surface cover: gravel, ~1 foot **FILL** SILTY SAND (SM); moist, dark brown; little silt; fine to medium sand; trace burned wood fragments; no chemical-like odor. Becomes with some silt.	0
5	15	3/8-in hydrated bentonite chip seal, NSF 60 2-in, threaded schedule 40 PVC well casing		MW-18D-5-6	PID=0.9 Sheen=None PID=1 Sheen=None PID=1.3 Sheen=None		SAND WITH SILT (SP-SM); moist, gray brown; fine to medium sand; no chemical-like odor. 1/2-in layer of Silty SAND at 5.5 ft bgs. 1/2-in layer of Silty SAND at 6.25 ft bgs. **ALLUVIAL DEPOSITS** SAND (SP); moist, gray to dark gray; fine to medium sand; trace red sand; no chemical-like odor.	5
10	10	12/20 silica sand filter pack			PID=0.9 Sheen=None PID=0.9 Sheen=None			10
15	5	▽ 9/12/2022 2-in, prepacked 0.010-in (10-slot) slotted schedule 40 PVC screen		MW-18D-15-16	PID=0.9 Sheen=None PID=1.1 Sheen=None PID=0.6 Sheen=None		Becomes wet, dark gray, with fine to coarse sand. 1-in orange oxidized layer. 1-in orange oxidized layer.	15
20	0	Boring backfilled with 3/8-in hydrated bentonite chips, NSF 60.		MW-18D-20-20.5	PID=0.9 Sheen=None PID=0.9 Sheen=None PID=1.1 Sheen=None PID=1.1 Sheen=None		SAND WITH SILT (SP-SM); wet, gray to gray brown; fine to coarse sand; trace to sub-trace gravel; no chemical-like odor.	20
25	-5			MW-18D-24-24.5			**GLACIAL TILL** SANDY SILT WITH GRAVEL (ML); wet, gray; low plasticity; fine sand; fine to coarse gravel; trace to few shell fragments up to 1/2-in; no chemical-like odor. Bottom of exploration at 20 ft. bgs.	25
30	-10							30

Legend

Sample Type
- ◯ No Soil Sample Recovery
- ◧ Continuous core 3" ID
- ◩ Grab sample

Water Level
- ▽ Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: DJM
Approved by: AJY

Exploration Log MW-18D
Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\190293_SOUTH_PARK_MARINA.GPJ August 26, 2024

Aspect CONSULTING	South Park Marina - 190293		Monitoring Well Log	
	Project Address & Site Specific Location 8604 Dallas Avenue South, Seattle, WA, 98108, NW of West Residential Structure		*Coordinates (SPN NAD83 ft)* E:1274694.01 N:195922.26	*Exploration Number* **MW-19**
Contractor Holt	*Equipment* Geoprobe 7822DT	*Sampling Method* Percussion hammer	*Ground Surface Elev. (NAVD88)* 13.9'	Ecology Well Tag No. BPW-038
Operator Mike Running	*Exploration Method(s)* Direct push	*Work Start/Completion Dates* 9/15/2022 to 9/16/2022	*Top of Casing Elev. (NAVD88)* 13.54'	*Depth to Water (Below GS)* No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
5	10	8-in flush mount monument set in concrete 3/8-in hydrated bentonite chip seal, NSF 60 2-in, threaded schedule 40 PVC well casing 12/20 silica sand filter pack 2-in, prepacked 0.010-in (10-slot) slotted schedule 40 PVC screen		No Samples Collected			Surface cover: 3/8" crushed gravel, 2 inches **FILL** SILTY SAND (SM); appears very loose, dry, dark gray to black; little silt; fine to medium sand; noncohesive; no chemical-like odor. Becomes moist. Excavated to 5.5 ft bgs using air knife and vacuum truck.	5
10	5						SAND WITH SILT (SP-SM); moist, grayish brown to dark gray; fine to medium sand; trace red sand; no chemical-like odor. 1/2-in of moist, brown, SILT **TIDAL FLAT DEPOSITS** SILTY SAND (SM); moist, dark gray; fine sand; no chemical-like odor. Bottom of exploration at 8 ft. bgs. Note: Cores from this boring/well were not logged and no samples were taken consistent with the RIWP. The details provided here are based on adjacent boring MW-19D.	10
15	0							15
20	-5							20
25	-10							25
30	-15							30

Legend

Sample Type

Water Level — No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: DJM
Approved by: AJY

Exploration Log MW-19

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\190293_SOUTH_PARK_MARINA.GPJ August 26, 2024

South Park Marina - 190293

Monitoring Well Log

Aspect CONSULTING

Project Address & Site Specific Location	Coordinates (SPN NAD83 ft)	Exploration Number
8604 Dallas Avenue South, Seattle, WA, 98108, NW of West Residential Structure	E:1274694.63 N:195917.19	**MW-19D**

Contractor	Equipment	Sampling Method	Ground Surface Elev. (NAVD88)	Ecology Well Tag No.
Holt	Geoprobe 7822DT	Percussion hammer	14.06'	BPW-037
Operator	**Exploration Method(s)**	**Work Start/Completion Dates**	**Top of Casing Elev. (NAVD88)**	**Depth to Water (Below GS)**
Mike Running	Direct push	9/14/2022 to 9/16/2022	13.61'	6.5' (ATD)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
0	10	8-in flush mount monument set in concrete		MW-19D-0-1 Hand Auger	PID=0.1 Sheen=Slight		Surface cover: 3/8" crushed gravel, 2 inches	0
							FILL SILTY SAND (SM); appears very loose, dry, dark gray to black; little silt; fine to medium sand; non-cohesive; no chemical-like odor.	
		3/8-in hydrated bentonite chip seal, NSF 60						
5	5	2-in, threaded schedule 40 PVC well casing					Becomes moist.	5
		▽ 9/16/2022					Excavated to 5.5 ft bgs using air knife and vacuum truck.	
				MW-19D-6-7	PID=0 Sheen=Slight		SAND WITH SILT (SP-SM); moist, grayish brown to dark gray; fine to medium sand; trace red sand; slight platy sheen; no chemical-like odor.	
					PID=0.5 Sheen=None		1/2-in of moist, brown, SILT.	
					PID=0.2 Sheen=None		**TIDAL FLAT DEPOSITS** SILTY SAND (SM); moist, dark gray; fine sand; no chemical-like odor.	
10	0			MW-19D-10-11	PID=0 Sheen=Slight		SILT (ML); moist, dark gray; low plasticity; some wood fibers; slight sulfur-like odor. Slight greenish tinge, slight sheen.	10
		12/20 silica sand filter pack			PID=0 Sheen=None		SILTY SAND (SM); wet, dark gray; some, low plasticity silt; fine sand; no chemical-like odor.	
							ALLUVIAL DEPOSITS SAND (SP); wet, dark gray; fine to medium sand; trace silt; trace red sand; no chemical-like odor.	
		2-in, prepacked 0.010-in (10-slot) slotted schedule 40 PVC screen						
15	-5			MW-19D-15-16	PID=0 Sheen=None		SAND WITH SILT (SP-SM); wet, dark brown; fine to coarse sand; silt has brown yellowish color; no chemical-like odor.	15
					PID=0 Sheen=None		1/2-in red-brown lens with rounded wood fragments.	
					PID=0 Sheen=None			
20	-10	Boring backfilled with 3/8-in hydrated bentonite chips, NSF 60.		MW-19D-20-21	PID=0.2 Sheen=None			20
					PID=0.2 Sheen=None			
				MW-19D-22-23	PID=0.2 Sheen=None			
25	-15						Bottom of exploration at 25 ft. bgs.	25
30								30

Legend

Sample Type
- ◯ No Soil Sample Recovery
- Continuous core 1.85" ID
- Grab sample
- Continuous core 3" ID

Water Level
- ▽ Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: AJY/DJM
Approved by: SJG

Exploration Log MW-19D

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\190293_SOUTH_PARK_MARINA.GPJ August 26, 2024

Aspect CONSULTING	South Park Marina - 190293		Monitoring Well Log	
	Project Address & Site Specific Location: 8604 Dallas Avenue South, Seattle, WA, 98108, S of South Park Tire Factory Shop		Coordinates (SPN NAD83 ft): E:1274523.19 N:195851.53	Exploration Number: **MW-20**
Contractor: Holt	Equipment: Geoprobe 7822DT	Sampling Method: Percussion hammer	Ground Surface Elev. (NAVD88): 18.92'	Ecology Well Tag No. BPW-031
Operator: Mike Running	Exploration Method(s): Direct push	Work Start/Completion Dates: 9/14/2022	Top of Casing Elev. (NAVD88): 18.43'	Depth to Water (Below GS): 11.5' (ATD)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
0	18.92	8-in flush mount monument set in concrete		MW-20-0.5-1.5	PID=24.1 Sheen=Slight PID=5.2 Sheen=Slight		Surface cover: asphalt, ~1.5 feet **FILL** SILTY SAND (SM); moist, dark brown; little silt; fine to medium sand; trace gravel; no chemical-like odor. At 0.5 ft bgs, 1-in layer of SILT Some silt.	0
		3/8-in hydrated bentonite chip seal, NSF 60					SAND WITH SILT (SP-SM); slightly moist, gray brown; fine to medium sand; trace to subtrace gravel; no chemical-like odor.	
5	15	2-in, threaded schedule 40 PVC well casing		MW-20-5-6	PID=6.7 Sheen=Slight PID=1 Sheen=None PID=4.5 Sheen=None PID=1.8 Sheen=None		SILTY SAND (SM); moist, brown; some silt; fine sand; laminae with variable silt content; no chemical-like odor. SAND (SP); moist, brown; fine to medium sand; trace silt; trace red sand; no chemical-like odor. 1-in layer of Silty SAND with orange oxidation staining.	5
10	10	12/20 silica sand filter pack ▽ 9/14/2022		MW-20-11-12	PID=0.4 Sheen=None PID=7.6 Sheen=Slight platty		Becomes dark gray. Becomes wet with slight platy sheen.	10
15	5	2-in, prepacked 0.010-in (10-slot) slotted schedule 40 PVC screen		MW-20-12.5-13.5	PID=16.6 Sheen=Slight platty PID=13.8 Sheen=None		SAND WITH SILT (SP-SM); wet, dark gray with yellow tinge; fine to medium sand; trace red sand; slight platy sheen; no chemical-like odor. 1/2-in layer of light brown Silty SAND or SILT **ALLUVIAL DEPOSITS** SAND (SP); wet, dark gray; fine to coarse sand; trace red sand; no chemical-like odor. Becomes fine to medium sand.	15
20	0	Boring backfilled with 3/8-in hydrated bentonite chips, NSF 60.		MW-20-18.5-19.5	PID=2.9 Sheen=None PID=2.3 Sheen=None PID=0.9 Sheen=None PID=1.1 Sheen=None PID=1.3 Sheen=None		1/4-in layer of brown SAND with Silt. Becomes fine to coarse sand. Alternating layers with a yellowish tinge. Bottom of exploration at 20 ft. bgs.	20
25	-5							25
30	-10							30

Legend

Sample Type
- ◯ No Soil Sample Recovery
- ◧ Continuous core 3" ID
- ▩ Grab sample

Water Level
- ▽ Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: DJM
Approved by: AJY

Exploration Log MW-20

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\190293_SOUTH_PARK_MARINA.GPJ August 26, 2024

South Park Marina - 190293

Monitoring Well Log

Aspect CONSULTING

Project Address & Site Specific Location: 8604 Dallas Avenue South, Seattle, WA, 98108, W of South Park Tire Factory Shop		*Coordinates (SPN NAD83 ft)*: E:1274486.42 N:195906.08	*Exploration Number*: **MW-21**
Contractor: Holt	*Equipment*: Geoprobe 7822DT	*Sampling Method*: Percussion hammer	*Ground Surface Elev. (NAVD88)*: 17.91'	Ecology Well Tag No. BPW-032
Operator: Mike Running	*Exploration Method(s)*: Direct push	*Work Start/Completion Dates*: 9/14/2022	*Top of Casing Elev. (NAVD88)*: 17.63'	*Depth to Water (Below GS)*: 10.8' (ATD)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
0	15	8-in flush mount monument set in concrete			PID=0.4 Sheen=Slight		Surface cover: asphalt, ~0.5 feet	0
							FILL	
					PID=0.8 Sheen=None		SAND WITH SILT (SP-SM); slightly moist, light brown; fine to medium sand; no chemical-like odor.	
		3/8-in hydrated bentonite chip seal, NSF 60			PID=0.6 Sheen=None		SAND (SP); moist, dark gray; fine to medium sand; trace red sand; no chemical-like odor.	
5	10	2-in, threaded schedule 40 PVC well casing 12/20 silica sand filter pack		MW-21-5-6	PID=0.5 Sheen=Slight platty			5
					PID=2.3 Sheen=None		1-in layer of brown SILT with orange oxidation staining at base.	
		2-in, prepacked 0.010-in (10-slot) slotted schedule 40 PVC screen			PID=1.7 Sheen=None		SILTY SAND (SM); moist, brown; some silt; fine sand; layers with orange oxidation staining; no chemical-like odor.	
10	5	▽ 9/14/2022			PID=0.8 Sheen=Slight		Becomes dark gray with little silt.	10
				MW-21-10.5-11.5			Becomes wet.	
					PID=2 Sheen=None		**TIDAL FLAT DEPOSITS**	
					PID=3.6 Sheen=None		SANDY SILT (ML); wet, gray brown; low plasticity; some fine sand; trace wood fibers; orange oxidation staining; no chemical-like odor.	
		Native sand heave/slough			PID=3.4 Sheen=None		SILTY SAND (SM); wet, dark gray; some silt; fine sand; silt content decreases with depth; trace wood fibers; no chemical-like odor.	
15	0				PID=4.2 Sheen=None		**ALLUVIAL DEPOSITS**	15
					PID=1.7 Sheen=None		SAND WITH SILT (SP-SM); wet, dark gray; fine sand; no chemical-like odor.	
					PID=3.3 Sheen=None		SAND (SP); wet, dark gray; fine to medium sand; no chemical-like odor.	
					PID=2.7 Sheen=None		SILTY SAND (SM); wet, dark gray; some silt; fine sand; trace roots and wood fibers; no chemical-like odor.	
20	-5			MW-21-18.5-19.5	PID=3.5 Sheen=None		Bottom of exploration at 20 ft. bgs.	20
25	-10							25
30	-15							30

Legend

Sample Type
- ◯ No Soil Sample Recovery
- ◫ Continuous core 3" ID
- ▩ Grab sample

Water Level
- ▽ Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: DJM
Approved by: AJY

Exploration Log MW-21

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\190293_SOUTH_PARK_MARINA.GPJ August 26, 2024

South Park Marina - 190293

Monitoring Well Log

Aspect CONSULTING

Project Address & Site Specific Location	Coordinates (SPN NAD83 ft)	Exploration Number
8604 Dallas Avenue South, Seattle, WA, 98108, W of South Park Tire Factory Shop	E:1274528.30 N:195934.16	**MW-22**

Contractor	Equipment	Sampling Method	Ground Surface Elev. (NAVD88)	Ecology Well Tag No.
Holt	Geoprobe 7822DT	Percussion hammer	17.8'	BPW-033

Operator	Exploration Method(s)	Work Start/Completion Dates	Top of Casing Elev. (NAVD88)	Depth to Water (Below GS)
Mike Running	Direct push	9/14/2022	17.39'	10.5' (ATD)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
		8-in flush mount monument set in concrete			PID=0.7 Sheen=None		Surface cover: asphalt, ~0.5 feet	
					PID=0.9 Sheen=Slight		**FILL** SILTY SAND WITH GRAVEL (SM); moist, brown; fine to coarse sand; fine to coarse, subrounded to angular gravel; no chemical-like odor.	
	15	3/8-in hydrated bentonite chip seal, NSF 60			PID=0.6 Sheen=None		CONCRETE; dry, light gray; 1-in of wood debris on bottom and top of concrete; no chemical-like odor.	
					PID=0.3 Sheen=None		SAND (SP); moist, dark gray; fine to medium sand; trace silt; trace red sand; no chemical-like odor.	
5		2-in, threaded schedule 40 PVC well casing 12/20 silica sand filter pack		MW-22-5-6	PID=0.5 Sheen=None		1/4-in layer of brown Silty SAND.	5
					PID=0.5 Sheen=None			
	10	2-in, prepacked 0.010-in (10-slot) slotted schedule 40 PVC screen			PID=0.3 Sheen=Slight			
10		▽ 9/14/2022		MW-22-10.5-11.5	PID=0.5 Sheen=Slight		SAND WITH SILT (SP-SM); very moist, dark brown; fine to coarse sand; fine to coarse, subrounded gravel; no chemical-like odor.	10
					PID=0.6 Sheen=None		SAND (SP); wet, dark gray; fine to medium sand; trace silt; trace red sand; no chemical-like odor.	
	5	Boring backfilled with 3/8-in hydrated bentonite chips, NSF 60.		MW-22-13-13.75	PID=0.7 Sheen=None		**TIDAL FLAT DEPOSITS** SILTY SAND (SM); wet, gray; some silt; fine sand; twigs and wood fibers at base; no chemical-like odor.	
					PID=0.6 Sheen=None		SAND (SP); wet, dark gray; fine to medium sand; trace silt; trace red sand; trace small roots; no chemical-like odor.	
15					PID=0.2 Sheen=None		SILT (ML); wet, dark gray; low plasticity; few decomposing wood fragments; no chemical-like odor.	15
					PID=0.4 Sheen=None		**ALLUVIAL DEPOSITS** SAND (SP); wet, dark gray; fine to medium sand; trace red sand; no chemical-like odor.	
	0			MW-22-17.5-18.5	PID=5.1 Sheen=None		Becomes fine sand.	
					PID=3.7 Sheen=None		Becomes dark gray with slight brown tinge.	
20							Becomes fine to coarse sand.	20
							Becomes dark gray with orange tinge.	
	-5						Bottom of exploration at 20 ft. bgs.	
25								25
	-10							
30								30
	-15							

Legend

Sample Type
- ◯ No Soil Sample Recovery
- ◧ Continuous core 3" ID
- ◩ Grab sample

Water Level
- ▽ Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: DJM
Approved by: AJY

Exploration Log MW-22

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\190293_SOUTH_PARK_MARINA.GPJ August 26, 2024

Aspect CONSULTING	South Park Marina - 190293		Environmental Exploration Log	
	Project Address & Site Specific Location: 8604 Dallas Avenue South, Seattle, WA, 98108, W of inferred settling pond location		Coordinates (SPN NAD83 ft): E:1275075 N:195755 (est)	Exploration Number: **SB-26**
Contractor: Holt	Equipment: Geoprobe 54 LT	Sampling Method: Percussion hammer	Ground Surface Elev. (NAVD88): 14.9' (est)	
Operator: Cody	Exploration Method(s): Direct push	Work Start/Completion Dates: 3/4/2021	Top of Casing Elev. (NAVD88): NA	Depth to Water (Below GS): 6' (ATD)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
0	15	Surface restored with surrounding surface soil.		SB-26-0-1 *	PID=0.7 Sheen=Slight		Surface cover: 3 inch gravel base course, 3/4 minus	0
				0-2 ft cleared with post hole digger.			**FILL** SAND WITH GRAVEL (SW); appears loose, moist, dark brown, fine- to coarse-grained, subangular sand; fine to coarse, subrounded gravel; trace brick and metal debris; very slight chemical-like odor.	
		Boring backfilled with 3/8-in hydrated bentonite chips, NSF 60.			PID=1 Sheen=Slight		SILTY SAND (SM); appears loose, moist, red-brown, fine- to medium-grained, subangular sand; low plasticity fines; some wood and charcoal fragments; no odor.	
5	10	▽ 3/4/2021		SB-26-4-5	PID=0.9 Sheen=Slight		SAND (SP); appears loose, moist, grey-brown, fine- to medium-grained, subangular sand; trace fines; no odor.	5
				SB-26-5.5-6.5 *	PID=1 Sheen=Slight			
10	5			SB-26-9.5	PID=1 Sheen=Very slight		**TIDAL FLAT DEPOSITS** ORGANIC SILT (OL); appears soft, moist, grey, medium plasticity; some 2-inch black organic matter; slight sulfur-like odor.	10
				SB-26-12.5 *	PID=1 Sheen=No sheen		SAND (SP); appears loose, moist, grey-brown, fine- to medium-grained, subangular sand; trace coarse, subrounded gravel near upper contact; trace fines; slight sulfur-like odor.	
15	0						SILTY SAND (SM); appears loose, wet, grey, fine- to medium-grained, subangular sand; low to medium plasticity fines; very slight sulfur-like odor.	15
					PID=1 Sheen=No sheen		SILT (ML); appears soft, moist, grey, medium plasticity; some silt-sized organic matter; slight sulfur-like odor.	
							ALLUVIAL DEPOSITS SAND (SP); appears loose, very moist, grey-brown, fine- to medium-grained, subangular sand; grain size decreases near upper contact; trace fines; very slight sulfur-like odor.	
20	-5			SB-26-18-20	PID=0.8 Sheen=No sheen			20
							Bottom of exploration at 20 ft. bgs.	
25	-10						Note: * - Sample submitted to laboratory for analysis. Remaining samples preserved and submitted to laboratory for archival pending results.	25
30	-15							30

Legend

Sample Type
- ◯ No Soil Sample Recovery
- Grab sample
- Continuous core 3" ID

Water Level
- ▽ Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: David Unruh
Approved by: AJY

Exploration Log SB-26

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\190293_SOUTH_PARK_MARINA.GPJ August 26, 2024

Aspect CONSULTING	South Park Marina - 190293		Environmental Exploration Log	
	Project Address & Site Specific Location 8604 Dallas Avenue South, Seattle, WA, 98108, E of boat maintenance building		*Coordinates (SPN NAD83 ft)* E:1274989 N:195871 (est)	*Exploration Number* **SB-27**
Contractor Holt	*Equipment* Geoprobe 7800	*Sampling Method* Percussion hammer	*Ground Surface Elev. (NAVD88)* 15.5' (est)	
Operator Cody	*Exploration Method(s)* Direct push	*Work Start/Completion Dates* 3/9/2021	*Top of Casing Elev. (NAVD88)* NA	*Depth to Water (Below GS)* 8.25' (ATD)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
0	15	Surface restored with concrete.		SB-27-0-1 *	PID=0.6 Sheen=Slight		Surface cover: asphalt, 3 inches	0
							FILL SANDY SILT WITH GRAVEL (ML); appears soft, moist, black, low to medium plasticity fines; fine- to coarse-grained, subangular sand; fine to coarse, subangular gravel; trace brick fragments; slight asphalt-like odor.	
		Boring backfilled with 3/8-in hydrated bentonite chips, NSF 60.		SB-27-3-5	PID=0.8 Sheen=Slight PID=1 Sheen=No sheen		SAND (SP); appears loose, moist, grey-brown, fine- to medium-grained, subangular sand; trace fines; no odor.	
5	10				PID=0.6 Sheen=Slight			5
					PID=0.5 Sheen=No sheen		SILT WITH SAND (ML); appears soft, moist, grey to red-brown, low plasticity; fine-grained, subangular sand; no odor.	
		▽ 3/9/2021		SB-27-8-9 *	PID=0.9 Sheen=No sheen		SILTY SAND (SM); appears loose, very moist, grey to red-brown, fine-grained, subangular sand; low plasticity fines; no odor.	
10	5				PID=1 Sheen=No sheen		**ALLUVIAL DEPOSITS** SAND (SP); appears loose, wet, black to red-brown, fine- to medium-grained, subangular sand; trace fines; no odor.	10
					PID=0.8 Sheen=No sheen			
					PID=0.8 Sheen=No sheen			
15	0				PID=0.3 Sheen=No sheen			15
					PID=0.5 Sheen=No sheen			
				SB-27-18-20	PID=0.6 Sheen=No sheen			
20	-5						Bottom of exploration at 20 ft. bgs.	20
							Note: * - Sample submitted to laboratory for analysis. Remaining samples preserved and submitted to laboratory for archival pending results.	
25	-10							25
30	-15							30

Legend

Sample Type
- ◯ No Soil Sample Recovery
- ▯ Continuous core 3" ID
- ▩ Grab sample

Water Level
- ▽ Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: David Unruh
Approved by: AJY

Exploration Log SB-27

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\190293_SOUTH_PARK_MARINA.GPJ August 26, 2024

Aspect CONSULTING	South Park Marina - 190293		Environmental Exploration Log	
	Project Address & Site Specific Location 8604 Dallas Avenue South, Seattle, WA, 98108, N of boat maintenence building		*Coordinates (SPN NAD83 ft)* E:1274932 N:195892 (est)	*Exploration Number* **SB-28**
Contractor Holt	*Equipment* Geoprobe 7800	*Sampling Method* Percussion hammer	*Ground Surface Elev. (NAVD88)* 16' (est)	
Operator Cody	*Exploration Method(s)* Direct push	*Work Start/Completion Dates* 3/1/2021	*Top of Casing Elev. (NAVD88)* NA	*Depth to Water (Below GS)* 15' (ATD)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
0	15	Surface restored with concrete.		SB-28-0-1 *	PID=0.8 Sheen=Slight		Surface cover: asphalt, 3 inches	0
							FILL SANDY SILT (ML); appears soft, moist, brown, low plasticity; fine-grained, subangular sand; no odor.	
		Boring backfilled with 3/8-in hydrated bentonite chips, NSF 60.		SB-28-3-5	PID=0.7 Sheen=No sheen		SAND (SP); appears loose, moist, grey-brown, fine- to primarily medium-grained, subangular sand; trace fines; no odor.	
5	10				PID=0.5 Sheen=No sheen		**TIDAL FLAT DEPOSITS** SANDY SILT (ML); appears soft, very moist, mottled grey to red-brown, medium plasticity; fine-grained, subangular sand; no odor.	5
					PID=1 Sheen=Slight		**ALLUVIAL DEPOSITS** SAND (SP); appears loose, moist, red-brown, fine- to primarily medium-grained, subangular sand; trace fines; no odor.	
10	5				PID=0.5 Sheen=No sheen			10
					PID=0.7 Sheen=No sheen		Becomes very moist, grey-brown.	
15	0	▽ 3/1/2021		SB-28-14.5-15.5 *	PID=0.6 Sheen=No sheen		Becomes wet.	15
				SB-28-15.5-18	PID=0.7 Sheen=No sheen			
				SB-28-18-19.5	PID=0.5 Sheen=No sheen			
20	-5						Bottom of exploration at 20 ft. bgs.	20
							Note: * - Sample submitted to laboratory for analysis. Remaining samples preserved and submitted to laboratory for archival pending results.	
25	-10							25
30	-15							30

Legend

Sample Type
- ◯ No Soil Sample Recovery
- ◫ Continuous core 3" ID
- ☒ Grab sample

Water Level
- ▽ Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: David Unruh
Approved by: AJY

Exploration Log SB-28

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\190293_SOUTH_PARK_MARINA.GPJ August 26, 2024

Aspect CONSULTING	South Park Marina - 190293		Environmental Exploration Log	
	Project Address & Site Specific Location 8604 Dallas Avenue South, Seattle, WA, 98108, SW of SW corner of Tire Factory building		*Coordinates (SPN NAD83 ft)* E:1274640 N:195988 (est)	*Exploration Number* **SB-29**
Contractor Holt	*Equipment* Geoprobe 7800	*Sampling Method* Percussion hammer	*Ground Surface Elev. (NAVD88)* 13.3' (est)	
Operator Cody	*Exploration Method(s)* Direct push	*Work Start/Completion Dates* 3/2/2021	*Top of Casing Elev. (NAVD88)* NA	*Depth to Water (Below GS)* 5.5' (ATD)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
0	10	Surface restored with spoils.		SB-29-0-1 *	PID=0.8 Sheen=Slight		Surface cover: 6 inch gravel base course, 3/4 minus **FILL** SAND WITH GRAVEL (SP); appears loose, moist, light brown, fine- to medium-grained, subangular sand; fine to coarse, subangular to subrounded gravel; no odor.	0
5	5	Boring backfilled with 3/8-in hydrated bentonite chips, NSF 60. ▽ 3/2/2021		SB-29A-3-5 *	PID=0.8 Sheen=Organic		SAND (SP); appears loose, moist, brown, fine- to primarily medium-grained, subangular sand; trace fines; no odor.	5
				SB-29-5-6	PID=1 Sheen=No sheen			
					PID=0.7 Sheen=No sheen		SILTY SAND (SM); appears loose, wet, light brown, fine- to medium-grained, subangular sand; medium plasticity fines; 0.1 ft layer of SILT (ML) at 6.75 ft bgs; very slight sulfur-like odor.	
10	0				PID=0.6 Sheen=No sheen		**ALLUVIAL DEPOSITS** SAND (SP); appears loose, wet, grey-brown, fine- to primarily medium-grained, subangular sand; trace fines; no odor.	10
					PID=0.6 Sheen=No sheen		0.1 ft layer trace fine, subrounded gravel.	
							Some oxide staining.	
15	-5				PID=0.8 Sheen=No sheen			15
				SB-29-15-17	PID=2 Sheen=No sheen			
20	-10						Bottom of exploration at 20 ft. bgs.	20
25	-15						Note: * - Sample submitted to laboratory for analysis. Remaining samples preserved and submitted to laboratory for archival pending results.	25
30	-20							30

Legend

Sample Type
- ◯ No Soil Sample Recovery
- ▮▮ Continuous core 3" ID
- Grab sample

Water Level
- ▽ Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: David Unruh
Approved by: AJY

Exploration Log SB-29

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\190293_SOUTH_PARK_MARINA.GPJ August 26, 2024

South Park Marina - 190293

Environmental Exploration Log

Aspect CONSULTING	Project Address & Site Specific Location	Coordinates (SPN NAD83 ft)	Exploration Number
	8604 Dallas Avenue South, Seattle, WA, 98108, W of of Tire Factory maintenance area	E:1274562 N:195863 (est)	**SB-30**

Contractor	Equipment	Sampling Method	Ground Surface Elev. (NAVD88)	
Holt	Geoprobe 7800	Percussion hammer	19.6' (est)	
Operator	**Exploration Method(s)**	**Work Start/Completion Dates**	**Top of Casing Elev. (NAVD88)**	**Depth to Water (Below GS)**
Cody	Direct push	3/1/2021	NA	11.7' (ATD)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
0	20	Surface restored with concrete.		SB-30-0-1 *	PID=0.1 Sheen=Very slight		Surface cover: asphalt, 3 inches	0
							FILL SAND WITH GRAVEL (SW); appears loose, moist, light brown, fine- to coarse-grained, primarily medium-grained, subangular sand; fine to coarse, subrounded gravel; trace fines; no odor.	
		Boring backfilled with 3/8-in hydrated bentonite chips, NSF 60.		SB-30A-3-5 *	PID=0.2 Sheen=No sheen PID=0.2 Sheen=Slight		SAND (SP); appears loose, moist, dark brown, fine- to primarily medium-grained, subangular sand; trace fines; no odor.	
5	15							5
					PID=0.3 Sheen=Organic			
10	10	▽ 3/1/2021						10
				SB-30-11.5-12.5 *	PID=2 Sheen=Slight		Becomes wet.	
				SB-30-12.5-14.5 *	PID=8 Sheen=Slight			
15	5							15
					PID=2 Sheen=Slight		**TIDAL FLAT DEPOSITS** SANDY SILT (ML); appears soft, wet, grey-brown, low to medium plasticity fines; fine-grained, subangular sand; interbedded 0.1-0.2 ft w/ layers of silty sand from 17-19.5 ft; No odor.	
20	0				PID=1 Sheen=No sheen		**ALLUVIAL DEPOSITS** SAND (SP); appears loose, wet, black, fine- to medium-grained, mostly medium-grained, subangular sand; trace fines; no odor.	20
					PID=1 Sheen=No sheen			
				SB-30-23-25 *	PID=0.3 Sheen=No sheen			
25	-5						Bottom of exploration at 25 ft. bgs.	25
							Note: * - Sample submitted to laboratory for analysis. Remaining samples preserved and submitted to laboratory for archival pending results.	
30	-10							30

Legend

Sample Type
- ◯ No Soil Sample Recovery
- ▮▮ Continuous core 3" ID
- ▩ Grab sample

Water Level
- ▽ Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: David Unruh
Approved by: AJY

Exploration Log SB-30

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\190293_SOUTH_PARK_MARINA.GPJ August 26, 2024

Aspect CONSULTING	South Park Marina - 190293		Environmental Exploration Log	
	Project Address & Site Specific Location 8604 Dallas Avenue South, Seattle, WA, 98108, N of Tire Factory maintenance area		*Coordinates (SPN NAD83 ft)* E:1274515 N:195902 (est)	*Exploration Number* **SB-31**
Contractor Holt	*Equipment* Geoprobe 7800	*Sampling Method* Percussion hammer	*Ground Surface Elev. (NAVD88)* 18.4' (est)	
Operator Cody	*Exploration Method(s)* Direct push	*Work Start/Completion Dates* 3/1/2021	*Top of Casing Elev. (NAVD88)* NA	*Depth to Water (Below GS)* 10.5' (ATD)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
0	15	Surface restored with concrete.		SB-31-0-1 *	PID=0.7 Sheen=Slight		Surface cover: asphalt, 6 inches	0
							FILL SAND WITH GRAVEL (SW); appears loose, slightly moist, brown, fine- to coarse-grained, subangular sand; fine to coarse, subangular to subrounded gravel; no odor.	
		Boring backfilled with 3/8-in hydrated bentonite chips, NSF 60.		SB-31A-3-5 *	PID=4 Sheen=Slight		SAND (SP); appears loose, moist, brown, fine- to primarily medium-grained, subangular sand; trace fines; no odor.	
5	10				PID=0.3 Sheen=Slight			5
10	5	▽ 3/1/2021		SB-31-10-11	PID=4 Sheen=Slight		Becomes wet.	10
							TIDAL FLAT DEPOSITS SANDY SILT (ML); appears soft, wet, dark grey, low to medium plasticity; fine-grained, subangular sand; slight sulfur-like odor.	
15	0			SB-31-13-14.5 *	PID=850 Sheen=Heavy		SAND WITH SILT (SP-SM); appears loose, wet, dark grey, fine-grained, subangular sand; low to medium plasticity fines; moderate petroleum-like odor; heavy iridescent sheen appears lighter than water.	15
					PID=834 Sheen=Moderate		SANDY SILT (ML); appears soft, wet, dark grey, low plasticity; fine-grained, subangular sand; slight petroleum-like odor.	
							SILTY SAND (SM); appears loose, wet, dark grey, fine-grained, subangular sand; low plasticity fines; moderate petroleum-like odor; moderate sheen appears slightly irredescent.	
20	-5				PID=2 Sheen=Slight			20
				SB-31-19-20 *	PID=3 Sheen=No sheen		SANDY SILT (ML); appears soft, wet, dark grey, low plasticity fines; fine-grained, subangular sand; no odor.	
							ALLUVIAL DEPOSITS SAND (SP); appears loose, wet, black, fine- to primarily medium-grained, subangular sand; trace fines; no odor.	
25	-10						Bottom of exploration at 20 ft. bgs.	25
							Note: * - Sample submitted to laboratory for analysis. Remaining samples preserved and submitted to laboratory for archival pending results.	
30	-15							30

Legend

Sample Type
- ◯ No Soil Sample Recovery
- ▮▯ Continuous core 3" ID
- ☒ Grab sample

Water Level
- ▽ Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: David Unruh
Approved by: AJY

Exploration Log SB-31

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\190293_SOUTH_PARK_MARINA.GPJ August 26, 2024

Aspect CONSULTING	South Park Marina - 190293		Environmental Exploration Log	
	Project Address & Site Specific Location 8604 Dallas Avenue South, Seattle, WA, 98108, NE boat storage/maintenance area		*Coordinates (SPN NAD83 ft)* E:1274706 N:196067 (est)	*Exploration Number* **SB-32**
Contractor Holt	*Equipment* Geoprobe 7800	*Sampling Method* Percussion hammer	*Ground Surface Elev. (NAVD88)* 14.9' (est)	
Operator Cody	*Exploration Method(s)* Direct push	*Work Start/Completion Dates* 3/8/2021	*Top of Casing Elev. (NAVD88)* NA	*Depth to Water (Below GS)* 7.5' (ATD)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
0	15	Surface restored with spoils.		SB-32-0-1 *	PID=0.6 Sheen=Slight		Surface cover: vegetated topsoil	0
							FILL SAND WITH SILT (SP-SM); appears loose, moist, brown, fine-grained, subangular sand; low plasticity fines; little roots and organic debris above 0.5 ft; no odor.	
		Boring backfilled with 3/8-in hydrated bentonite chips, NSF 60.			PID=0.7 Sheen=Organic			
5	10			SB-32-4-5 *	PID=0.5 Sheen=Organic			5
					PID=0.9 Sheen=Organic			
		▽ 3/8/2021		SB-32-7-8	PID=0.8 Sheen=No sheen		**TIDAL FLAT DEPOSITS** SANDY SILT (ML); appears soft, wet, grey to brown, low plasticity; fine-grained, subangular sand; slight sulfur-like odor.	
10	5				PID=0.9 Sheen=No sheen			10
					PID=0.6 Sheen=No sheen			
					PID=0.8 Sheen=No sheen		SILTY SAND (SM); appears loose, wet, grey, fine-grained, subangular sand; low plasticity fines; no odor.	
15	0				PID=0.6 Sheen=No sheen			15
					PID=1 Sheen=No sheen		**ALLUVIAL DEPOSITS** SAND (SP); appears loose, wet, black, fine- to medium-grained, subangular sand; trace fines; very slight sulfur-like odor.	
					PID=0.9 Sheen=No sheen			
20	-5			SB-32-18-20			Bottom of exploration at 20 ft. bgs.	20
							Note: * - Sample submitted to laboratory for analysis. Remaining samples preserved and submitted to laboratory for archival pending results.	
25	-10							25
30	-15							30

Legend

Sample Type
- ◯ No Soil Sample Recovery
- Grab sample
- Continuous core 3" ID

Water Level
- ▽ Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: David Unruh
Approved by: AJY

Exploration Log SB-32

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\190293_SOUTH_PARK_MARINA.GPJ August 26, 2024

Aspect CONSULTING	South Park Marina - 190293		Environmental Exploration Log	
	Project Address & Site Specific Location 8604 Dallas Avenue South, Seattle, WA, 98108, W of SW corner of bathroom/laundry building		*Coordinates (SPN NAD83 ft)* E:1274762 N:195942 (est)	*Exploration Number* **SB-33**
Contractor Holt	*Equipment* Geoprobe 7800	*Sampling Method* Percussion hammer	*Ground Surface Elev. (NAVD88)* 13.5' (est)	
Operator Cody	*Exploration Method(s)* Direct push	*Work Start/Completion Dates* 3/3/2021	*Top of Casing Elev. (NAVD88)* NA	*Depth to Water (Below GS)* 6' (ATD)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
		Surface restored with concrete.		SB-33-0-1 *	PID=0.2 Sheen=Slight		Surface cover: asphalt, 3 inches	
				SB-33-1-1.5	PID=0.3 Sheen=Slight		**FILL** SAND WITH SILT AND GRAVEL (SW-SM); appears loose, moist, light brown, fine- to coarse-grained, subangular sand; fine to coarse, subangular to subrounded gravel; low plasticity fines; no odor.	
	10	Boring backfilled with 3/8-in hydrated bentonite chips, NSF 60.		SB-33-3-5 *	PID=0.3 Sheen=Slight		SAND (SP); appears loose, moist, grey-brown, fine- to medium-grained, subangular sand; trace fines; no odor	
5					PID=0.6 Sheen=Slight		Becomes very moist.	5
		▽ 3/3/2021		SB-33-5.5-6.5	PID=0.5 Sheen=Very slight		**TIDAL FLAT DEPOSITS** SILT (ML); appears soft, moist, grey to red-brown, medium plasticity; trace organic matter; slight sulfur-like odor.	
					PID=0.5 Sheen=No sheen		SILTY SAND (SM); appears loose, very moist, grey-brown, fine- to medium-grained, subangular sand; low to medium plasticity; fine content increase downward toward bottom contact; slight sulfur-like odor.	
	5				PID=0.6 Sheen=No sheen			
10					PID=2 Sheen=No sheen		**ALLUVIAL DEPOSITS** SAND (SP); appears loose, wet, grey-brown, fine- to medium-grained, subangular sand; trace fines; slight sulfur-like odor.	10
					PID=5 Sheen=No sheen			
	0				PID=2 Sheen=No sheen			
15					PID=2 Sheen=No sheen			15
							Becomes brown.	
	-5			SB-33-18-20	PID=5 Sheen=No sheen			
20							Bottom of exploration at 20 ft. bgs.	20
							Note: * - Sample submitted to laboratory for analysis. Remaining samples preserved and submitted to laboratory for archival pending results.	
	-10							
25								25
	-15							
30								30
	-20							

Legend

Sample Type
- ◯ No Soil Sample Recovery
- ▮▯ Continuous core 3" ID
- Grab sample

Water Level
- ▽ Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: David Unruh
Approved by: AJY

Exploration Log SB-33

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\190293_SOUTH_PARK_MARINA.GPJ August 26, 2024

Aspect CONSULTING	South Park Marina - 190293		Environmental Exploration Log	
	Project Address & Site Specific Location 8604 Dallas Avenue South, Seattle, WA, 98108, S of SW corner of Tire Factore building		*Coordinates (SPN NAD83 ft)* E:1274622 N:195919 (est)	*Exploration Number* **SB-34**
Contractor Holt	*Equipment* Geoprobe 7800	*Sampling Method* Percussion hammer	*Ground Surface Elev. (NAVD88)* 14.7' (est)	
Operator Cody	*Exploration Method(s)* Direct push	*Work Start/Completion Dates* 3/2/2021	*Top of Casing Elev. (NAVD88)* NA	*Depth to Water (Below GS)* 6' (ATD)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
0	15	Surface restored with spoils.		SB-34-0-1 *	PID=0.5 Sheen=Slight		Surface cover: 2 inch gravel base course, 3/4 minus	0
							FILL SAND (SP); appears loose, moist, light brown, fine- to primarily medium-grained, subangular sand; trace fines; becomes brown at 0.5 ft bgs; no odor.	
		Boring backfilled with 3/8-in hydrated bentonite chips, NSF 60.		SB-34-3-4 *	PID=0.4 Sheen=Slight			
5	10	▽ 3/2/2021		SB-34-5.5-6.5 *	PID=0.6 Sheen=No sheen		Becomes wet.	5
				SB-34-6.5-8.5	PID=1 Sheen=No sheen			
10	5				PID=1 Sheen=No sheen		**TIDAL FLAT DEPOSITS** SANDY SILT (ML); appears soft, wet, dark grey, low plasticity; fine-grained, subangular sand; trace organic matter including root fragments near upper contact; slight sulfur-like odor.	10
					PID=1 Sheen=No sheen		SILTY SAND (SM); appears loose, wet, dark grey, fine- to medium-grained, subangular sand; low plasticity fines; subtrace organic matter; slight sulfur-like odor.	
15	0				PID=1 Sheen=No sheen		SILT (ML); appears soft, wet, dark grey, medium plasticity; slight sulfur-like odor.	15
				SB-34-15-17.5	PID=3 Sheen=No sheen		**ALLUVIAL DEPOSITS** SAND (SP); appears loose, wet, black, fine- to primarily medium-grained, subangular sand; trace fines; slight sulfur-like odor.	
20	-5						Bottom of exploration at 20 ft. bgs.	20
							Note: * - Sample submitted to laboratory for analysis. Remaining samples preserved and submitted to laboratory for archival pending results.	
25	-10							25
30	-15							30

Legend

Sample Type
- ◯ No Soil Sample Recovery
- ◫ Continuous core 3" ID
- ▩ Grab sample

Water Level
- ▽ Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: David Unruh
Approved by: AJY

Exploration Log SB-34

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\190293_SOUTH_PARK_MARINA.GPJ August 26, 2024

Aspect CONSULTING	South Park Marina - 190293		Environmental Exploration Log	
	Project Address & Site Specific Location 8604 Dallas Avenue South, Seattle, WA, 98108, SE corner of historic A&B Barrel Building		*Coordinates (SPN NAD83 ft)* E:1275038 N:195691 (est)	*Exploration Number* **SB-35**
Contractor Holt	*Equipment* Geoprobe 7822DT	*Sampling Method* Percussion hammer	*Ground Surface Elev. (NAVD88)* 19.3' (est)	
Operator Mike Running	*Exploration Method(s)* Direct push	*Work Start/Completion Dates* 9/12/2022	*Top of Casing Elev. (NAVD88)* NA	*Depth to Water (Below GS)* 11' (ATD)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
		Surface restored with surrounding surface soil.		SB-35-0-1	PID=0.4 Sheen=Slight		Surface cover: gravel base course	
					PID=0.5 Sheen=Slight		**FILL** SILTY SAND WITH GRAVEL (SM); moist, brown; fine to coarse sand; fine to coarse subangular to angular gravel; no chemical-like odor.	
					PID=0.5 Sheen=Slight		Yellow paint-like material and asphalt debris	
		Boring backfilled with 3/8-in hydrated bentonite chips, NSF 60.		SB-35-3-4	PID=0.5 Sheen=Slight		SAND (SP); moist, gray brown; fine to medium sand; trace silt; trace red sand; no chemical-like odor.	
	15							
5					PID=0.7 Sheen=None			5
					PID=0.8 Sheen=None			
					PID=0.9 Sheen=None			
	10							
10		▽ 9/12/2022			PID=0.8 Sheen=None		SAND WITH SILT (SP-SM); moist, brown to gray brown; fine to medium sand; trace red sand; no chemical-like odor.	10
					PID=1.1 Sheen=None		Orange oxidation staining.	
				SB-35-11-12			Becomes wet	
					PID=0.9 Sheen=None		**TIDAL FLAT DEPOSITS** SANDY SILT (ML); wet, gray; low plasticity; fine to medium sand; sand content decreases with depth; no chemical-like odor.	
				SB-35-13-13.75	PID=0.9 Sheen=None			
	5						SILT (ML); wet, gray; low to medium plasticity; little, large, slightly decayed wood fragments; no chemical-like odor.	
15					PID=0.7 Sheen=None			15
					PID=1.1 Sheen=None		**ALLUVIAL DEPOSITS** SILTY SAND (SM); wet, gray; fine to medium sand; no chemical-like odor.	
					PID=0.9 Sheen=None		SANDY SILT (ML); wet, gray; low to medium plasticity; no chemical-like odor.	
				SB-35-18-18.75	PID=0.8 Sheen=None		SILTY SAND (SM); wet, gray brown; little silt; fine to medium sand; upper contact has orange oxidation staining; no chemical-like odor.	
	0							
20							Bottom of exploration at 20 ft. bgs.	20
	-5							

Legend

Sample Type
- ◯ No Soil Sample Recovery
- ▯ Continuous core 3" ID
- Grab sample

Water Level
- ▽ Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: DJM
Approved by: AJY

Exploration Log SB-35
Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\190293_SOUTH_PARK_MARINA.GPJ August 26, 2024

Aspect CONSULTING	South Park Marina - 190293		Environmental Exploration Log	
	Project Address & Site Specific Location 8604 Dallas Avenue South, Seattle, WA, 98108, E of historic A&B Barrel Building		*Coordinates (SPN NAD83 ft)* E:1275067 N:195711 (est)	*Exploration Number* **SB-36**
Contractor Holt	*Equipment* Geoprobe 7822DT	*Sampling Method* Percussion hammer	*Ground Surface Elev. (NAVD88)* 18.6' (est)	
Operator Mike Running	*Exploration Method(s)* Direct push	*Work Start/Completion Dates* 9/12/2022	*Top of Casing Elev. (NAVD88)* NA	*Depth to Water (Below GS)* 10.5' (ATD)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
		Surface restored with surrounding surface soil.		SB-36-0-1	PID=0.2 Sheen=None		Surface cover: gravel base course	
							FILL SAND WITH SILT AND GRAVEL (SP-SM); moist, brown; fine to coarse sand; fine to coarse, subrounded gravel; trace brick fragments; no chemical-like odor.	
					PID=0.4 Sheen=None			
				SB-36-2-3	PID=0.4 Sheen=None		SAND WITH SILT (SP-SM); moist, brown; fine to coarse sand; trace fine subrounded gravel; no chemical-like odor.	
	15	Boring backfilled with 3/8-in hydrated bentonite chips, NSF 60.						
5								5
					PID=0.4 Sheen=None			
					PID=0.4 Sheen=None			
					PID=0.4 Sheen=None		SAND (SP); slightly moist, gray brown; fine to medium sand; trace red sand; no chemical-like odor.	
	10							
10		▽ 9/12/2022						10
					PID=0.4 Sheen=Moderate		Becomes wet with moderate platy sheen	
				SB-36-10.5-11.5				
					PID=0.6 Sheen=None		**TIDAL FLAT DEPOSITS** SILT WITH SAND (ML); very moist, dark gray; low plasticity; fine to medium sand; sand content decreases with depth; no chemical-like odor.	
					PID=0.3 Sheen=None			
	5			SB-36-13-14	PID=0.7 Sheen=None		SILT (ML); very moist, dark gray; low to medium plasticity; little, lightly decomposed wood fragments; no chemical-like odor.	
							ALLUVIAL DEPOSITS SAND (SP); wet, gray brown; fine to medium sand; trace silt; trace red sand; no chemical-like odor.	
15								15
					PID=0.5 Sheen=None			
					PID=0.5 Sheen=None			
					PID=0.5 Sheen=None		SANDY SILT (ML); very moist, brown; low plasticity; fine to medium sand; few small roots and wood fibers; no chemical-like odor.	
	0				PID=0.4 Sheen=None			
				SB-36-19-20	PID=0.4 Sheen=None		SAND WITH SILT (SP-SM); wet, gray brown; fine to medium sand; no chemical-like odor.	
20							Bottom of exploration at 20 ft. bgs.	20
	-5							

Legend

Sample Type
- ◯ No Soil Sample Recovery
- ◧ Continuous core 3" ID
- ◩ Grab sample

Water Level
- ▽ Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: DJM
Approved by: AJY

Exploration Log SB-36

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\190293_SOUTH_PARK_MARINA.GPJ August 26, 2024

Aspect CONSULTING	South Park Marina - 190293		Environmental Exploration Log	
	Project Address & Site Specific Location 8604 Dallas Avenue South, Seattle, WA, 98108, In historic A&B Barrel Building		Coordinates (SPN NAD83 ft) E:1275019 N:195711 (est)	Exploration Number **SB-37**
Contractor Holt	Equipment Geoprobe 7822DT	Sampling Method Percussion hammer	Ground Surface Elev. (NAVD88) 18.5' (est)	
Operator Mike Running	Exploration Method(s) Direct push	Work Start/Completion Dates 9/13/2022	Top of Casing Elev. (NAVD88) NA	Depth to Water (Below GS) 10' (ATD)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
0	15	Concrete patch		SB-37-0-1	PID=0.2 Sheen=None		Surface cover: gravel base course	0
							FILL SAND WITH SILT AND GRAVEL (SP-SM); moist, brown; fine to coarse sand; fine to coarse, subrounded to subangular gravel; trace charred wood; trace gravel sized clumps of paint-like material; no chemical-like odor.	
				SB-37-1-2	PID=0.2 Sheen=Slight			
					PID=0.2 Sheen=None		SAND (SP); moist, dark brown; fine to coarse sand; no chemical-like odor.	
		Boring backfilled with 3/8-in hydrated bentonite chips, NSF 60.					6-in with trace coarse gravel, large white pieces of chalk-like material, trace wood debris, and trace string.	
5	10			SB-37-5-6	PID=0.3 Sheen=None			5
					PID=0.3 Sheen=None		1/4-in layer of SAND with Silt to Silty SAND.	
							1/4-in layer of SAND with Silt to Silty SAND.	
					PID=0.3 Sheen=Slight		1/4-in layer of SAND with Silt to Silty SAND; slight platy sheen.	
10	5	▽ 9/13/2022		SB-37-10-11	PID=0.4 Sheen=None		SAND WITH SILT (SP-SM); wet, gray brown; fine to medium sand; trace red sand; no chemical-like odor.	10
					PID=0.4 Sheen=None		SAND (SP); wet, gray brown; fine to medium sand; trace red sand; no chemical-like odor.	
					PID=0.5 Sheen=None		SILTY SAND (SM); wet, gray brown; some silt; fine sand; no chemical-like odor.	
							TIDAL FLAT DEPOSITS SILT (ML); wet, gray brown to dark gray; low to medium plasticity; few to some wood fragments; no chemical-like odor.	
15	0			SB-37-13-13.75	PID=0.5 Sheen=None			15
							ALLUVIAL DEPOSITS SAND (SP); wet, dark gray; fine to medium sand; trace gravel in upper 6-in; no chemical-like odor.	
					PID=0.5 Sheen=None		Becomes with slight orange tinge.	
					PID=0.6 Sheen=None		3-in section with orange oxidation staining.	
					PID=0.4 Sheen=None			
20	-5			SB-37-19-19.5			Bottom of exploration at 20 ft. bgs.	20

Legend

Sample Type
- ◯ No Soil Sample Recovery
- ▮▮ Continuous core 3" ID
- Grab sample

Water Level
- ▽ Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: DJM
Approved by: AJY

Exploration Log SB-37

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\190293_SOUTH_PARK_MARINA.GPJ August 26, 2024

Aspect CONSULTING	South Park Marina - 190293		Environmental Exploration Log	
	Project Address & Site Specific Location: 8604 Dallas Avenue South, Seattle, WA, 98108, SW of historic A&B Barrel Building		Coordinates (SPN NAD83 ft): E:1274997 N:195690 (est)	Exploration Number: **SB-38**
Contractor: Holt	Equipment: Geoprobe 7822DT	Sampling Method: Percussion hammer	Ground Surface Elev. (NAVD88): 19.4' (est)	
Operator: Mike Running	Exploration Method(s): Direct push	Work Start/Completion Dates: 9/12/2022	Top of Casing Elev. (NAVD88): NA	Depth to Water (Below GS): 10.5' (ATD)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
0	15	Concrete patch		SB-38-0-1	PID=0.9 Sheen=Slight		Surface cover: gravel base course	0
							FILL	
					PID=1 Sheen=None		SILTY SAND WITH GRAVEL (SM); moist, dark gray; fine to coarse sand; fine to coarse, rounded to subrounded gravel; no chemical-like odor.	
					PID=0.8 Sheen=None		Orange paint-like chips present at 6-in bgs.	
		Boring backfilled with 3/8-in hydrated bentonite chips, NSF 60.					SILTY SAND (SM); moist, dark gray; fine to medium sand; no chemical-like odor.	
							SAND WITH SILT (SP-SM); moist, gray; fine to medium sand; no chemical-like odor.	
5	10			SB-38-5-6	PID=0.9 Sheen=None		SAND (SP); moist, dark gray; fine to medium sand; trace red sand; no chemical-like odor.	5
					PID=0.8 Sheen=None			
					PID=1.1 Sheen=None			
10	5	▽ 9/12/2022		SB-38-10.5-11.5	PID=0.9 Sheen=Slight		**TIDAL FLAT DEPOSITS**	10
					PID=0.9 Sheen=None		SILT (ML); wet, dark gray; low to medium plasticity; 20-30% slightly decayed wood fragments; no chemical-like odor.	
					PID=1.5 Sheen=None			
					PID=1.5 Sheen=None		SAND WITH SILT (SP-SM); wet, dark gray; fine to medium sand; trace red sand; large wood fragments; no chemical-like odor.	
15	0			SB-38-15-16	PID=1.2 Sheen=None		SILTY SAND (SM); wet, gray; little to some silt; fine to medium sand; trace red sand; no chemical-like odor.	15
					PID=1 Sheen=None			
					PID=1.2 Sheen=None		SAND WITH SILT (SP-SM); wet, dark gray; fine to medium sand; trace red sand; no chemical-like odor.	
					PID=1.3 Sheen=None			
				SB-38-18.5-19.5	PID=1.3 Sheen=None		SILTY SAND (SM); wet, brown; little to some silt; fine to medium sand; trace red sand; no chemical-like odor.	
20	-5						Bottom of exploration at 20 ft. bgs.	20

Legend

Sample Type
- ◯ No Soil Sample Recovery
- ◧ Continuous core 3" ID
- ◩ Grab sample

Water Level
- ▽ Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: DJM
Approved by: AJY

Exploration Log SB-38

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\190293_SOUTH_PARK_MARINA.GPJ August 26, 2024

Aspect CONSULTING	South Park Marina - 190293		Environmental Exploration Log	
	Project Address & Site Specific Location 8604 Dallas Avenue South, Seattle, WA, 98108, NW side of A&B Barrel Building		*Coordinates (SPN NAD83 ft)* E:1275043 N:195747 (est)	*Exploration Number* **SB-39**
Contractor Holt	*Equipment* Geoprobe 7822DT	*Sampling Method* Percussion hammer	*Ground Surface Elev. (NAVD88)* 16.2' (est)	
Operator Mike Running	*Exploration Method(s)* Direct push	*Work Start/Completion Dates* 9/13/2022	*Top of Casing Elev. (NAVD88)* NA	*Depth to Water (Below GS)* 7.4' (ATD)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
		Concrete patch		SB-39-0-1	PID=0.9 Sheen=Slight		Surface cover: gravel base course	
	15				PID=0.7 Sheen=None		**FILL** SAND WITH SILT AND GRAVEL (SP-SM); slightly moist, gray brown; fine to coarse sand; fine to coarse, subangular to angular gravel; trace wood and paint-like debris; no chemical-like odor.	
					PID=1.2 Sheen=None		SAND WITH SILT (SP-SM); moist, brown; fine to coarse sand; trace fine to coarse gravel; no chemical-like odor.	
		Boring backfilled with 3/8-in hydrated bentonite chips, NSF 60.			PID=1.1 Sheen=None		SAND (SP); moist, brown; fine to coarse sand; trace red sand; no chemical-like odor.	
5				SB-39-5-6	PID=0.9 Sheen=Slight		SAND WITH SILT (SP-SM); moist, brown; fine to medium sand; no chemical-like odor.	5
	10				PID=0.4 Sheen=None		SAND WITH SILT AND GRAVEL (SP-SM); moist, brown; fine to medium sand; fine to coarse gravel; trace wood and plastic debris; slight platy sheen; no chemical-like odor.	
		▽ 9/13/2022		SB-39-7-8	PID=1.2 Sheen=Slight		SAND (SP); moist, gray; fine to coarse sand; trace red sand; no chemical-like odor.	
							SAND WITH SILT (SP-SM); wet, gray brown; fine to medium sand; trace red sand; no chemical-like odor. At 7.35 ft bgs thin laminae with charred wood. At 7.75 ft bgs laminae includes silt layers with orange oxidation staining above and below.	
10					PID=0.8 Sheen=Slight		**TIDAL FLAT DEPOSITS** SILT WITH SAND (ML); wet, gray; low plasticity; fine to medium sand; no chemical-like odor.	10
	5			SB-39-10.5-11.5	PID=0.6 Sheen=None		SILT (ML); moist, gray to dark gray; low to medium plasticity; trace to few partially decayed wood fibers; slight sulfur like odor.	
				SB-39-12-13	PID=0.8 Sheen=None		Becomes brown.	
					PID=0.8 Sheen=None		SILTY SAND (SM); wet, gray brown to red brown; fine sand; alternates color every 1/2-in with variable silt content; no chemical-like odor.	
15							**ALLUVIAL DEPOSITS**	15
					PID=0.6 Sheen=Slight		SAND (SP); wet, gray brown; fine to medium sand; trace silt; trace red sand; no chemical-like odor.	
	0				PID=0.7 Sheen=None		Becomes gray with brown tinge increasing with depth.	
					PID=0.2 Sheen=None			
					PID=0.6 Sheen=None		Becomes gray.	
				SB-39-18.5-19.5	PID=0.7 Sheen=None		1-in layer with orange oxidation staining.	
20							Bottom of exploration at 20 ft. bgs.	20
	-5							

Legend

Sample Type
- ◯ No Soil Sample Recovery
- ◫ Continuous core 3" ID
- ⊠ Grab sample

Water Level
- ▽ Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: DJM
Approved by: AJY

Exploration Log SB-39
Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\190293_SOUTH_PARK_MARINA.GPJ August 26, 2024

Aspect CONSULTING	South Park Marina - 190293		Environmental Exploration Log	
	Project Address & Site Specific Location 8604 Dallas Avenue South, Seattle, WA, 98108, W of Washwater Treatment CONEX Box		*Coordinates (SPN NAD83 ft)* E:1274947 N:195842 (est)	*Exploration Number* **SB-40**
Contractor Holt	*Equipment* Geoprobe 7822DT	*Sampling Method* Percussion hammer	*Ground Surface Elev. (NAVD88)* 15.8' (est)	
Operator Mike Running	*Exploration Method(s)* Direct push	*Work Start/Completion Dates* 9/26/2022	*Top of Casing Elev. (NAVD88)* NA	*Depth to Water (Below GS)* 12' (ATD)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
	15	Concrete patch		SB-40-0-1	PID=0.1 Sheen=Slight		Surface cover: asphalt, ~0.3 feet	
					PID=0.1 Sheen=None		**FILL** SILTY SAND WITH GRAVEL (SM); moist, gray brown; some silt; fine to coarse sand; fine, subrounded to subangular gravel; slight platy sheen; no chemical-like odor.	
					PID=0.2 Sheen=None		SAND WITH SILT (SP-SM); moist, dark gray; fine to medium sand; trace red sand; trace to subtrace wood fragments and twigs; no chemical-like odor. 1-in thick wood core.	
5		Boring backfilled with 3/8-in hydrated bentonite chips, NSF 60.						5
	10			SB-40-5-6	PID=0.2 Sheen=None			
					PID=0.3 Sheen=None		Becomes very moist.	
					PID=0.2 Sheen=None		**TIDAL FLAT DEPOSITS** SILT (ML); moist, dark gray; low plasticity; trace wood fibers and wood fragments; no chemical-like odor. 1/8-in layer with orange color.	
10	5				PID=0.2 Sheen=None		SAND WITH SILT (SP-SM); very moist, dark gray; fine to medium sand; silt has orange tinge; trace red sand; no chemical-like odor.	10
		▽ 9/26/2022			PID=0.2 Sheen=None		1/4-in orange layer.	
				SB-40-12-13	PID=0.2 Sheen=None		**ALLUVIAL DEPOSITS** SAND (SP); wet, dark gray; fine to coarse sand; trace red sand; no chemical-like odor.	
15	0			SB-40-15-16	PID=0.2 Sheen=None			15
					PID=0.2 Sheen=None			
					PID=0.2 Sheen=None			
				SB-40-17.5-18.5	PID=0.2 Sheen=None			
20	-5						Bottom of exploration at 20 ft. bgs.	20

Legend

Sample Type
- ◯ No Soil Sample Recovery
- ▯ Continuous core 3" ID
- ▩ Grab sample

Water Level
- ▽ Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: DJM
Approved by: AJY

Exploration Log SB-40
Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\190293_SOUTH_PARK_MARINA.GPJ August 26, 2024

Aspect CONSULTING	South Park Marina - 190293		Environmental Exploration Log	
	Project Address & Site Specific Location 8604 Dallas Avenue South, Seattle, WA, 98108, NE of Harbor Master Shop		*Coordinates (SPN NAD83 ft)* E:1275012 N:195868 (est)	*Exploration Number* **SB-41**
Contractor Holt	*Equipment* Geoprobe 7822DT	*Sampling Method* Percussion hammer	*Ground Surface Elev. (NAVD88)* 15.2' (est)	
Operator Mike Running	*Exploration Method(s)* Direct push	*Work Start/Completion Dates* 9/13/2022	*Top of Casing Elev. (NAVD88)* NA	*Depth to Water (Below GS)* 15' (ATD)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
	15	Concrete patch		SB-41-0-1	PID=0.9 Sheen=Slight platty		Surface cover: gravel base course	
							FILL SILTY SAND WITH GRAVEL (SM); dry, brown; fine to medium sand; fine to coarse, angular gravel; trace orange nodules; trace wood fibers; no chemical-like odor.	
					PID=0.6 Sheen=Moderate platty			
					PID=0.8 Sheen=None		SAND (SP); slightly moist, gray; fine to medium sand; trace to subtrace silt; trace roots; no chemical-like odor.	
		Boring backfilled with 3/8-in hydrated bentonite chips, NSF 60.						
5	10			SB-41-5-6	PID=0.9 Sheen=None			5
							Becomes moist. Becomes very moist.	
					PID=0.7 Sheen=None			
				SB-41-7-8	PID=0.6 Sheen=None		SILTY SAND (SM); very moist, gray with brown yellow streaks; little to some silt; fine sand; no chemical-like odor.	
							ALLUVIAL DEPOSITS SAND (SP); very moist, dark gray; fine to medium sand; trace red sand; no chemical-like odor.	
10	5			SB-41-10-11	PID=1.4 Sheen=None		Becomes with trace to subtrace silt. 2in layer of SAND with silt.	10
15	0	▽ 9/13/2022		SB-41-15-16	PID=0.4 Sheen=None		Becomes wet.	15
					PID=0.4 Sheen=None			
20	-5						Bottom of exploration at 20 ft. bgs.	20

Legend

Sample Type
- ◯ No Soil Sample Recovery
- ▮▯ Continuous core 3" ID
- ▩ Grab sample

Water Level
- ▽ Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: DJM
Approved by: AJY

Exploration Log SB-41
Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\190293_SOUTH_PARK_MARINA.GPJ August 26, 2024

Aspect CONSULTING	South Park Marina - 190293		Environmental Exploration Log	
	Project Address & Site Specific Location 8604 Dallas Avenue South, Seattle, WA, 98108, W of Barrel Pond		*Coordinates (SPN NAD83 ft)* E:1275090 N:195766 (est)	*Exploration Number* **SB-42**
Contractor Holt	*Equipment* Terra Sonic 150CC	*Sampling Method* Rotary core	*Ground Surface Elev. (NAVD88)* 15' (est)	
Operator Quaid Curtis	*Exploration Method(s)* Sonic	*Work Start/Completion Dates* 9/22/2022	*Top of Casing Elev. (NAVD88)* NA	*Depth to Water (Below GS)* 10' (ATD)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
		Concrete patch		SB-42-0-1	Sheen=None		Surface cover: gravel base course	
					PID=0.2 Sheen=None		**FILL** SAND WITH SILT AND GRAVEL (SP-SM); slightly moist, brown; fine to coarse sand; fine, subangular to subrounded gravel; trace roots and plastic debris; no chemical-like odor.	
					PID=3 Sheen=Slight		Becomes dark brown; fine to coarse, subrounded to subangular gravel; strong hydrocarbon-like odor.	
		Boring backfilled with 3/8-in hydrated bentonite chips, NSF 60.			PID=30.4 Sheen=Heavy		2.5 to 4 ft bgs large chunk of wood debris.	
				SB-42-3.5-4.5	PID=226 Sheen=Heavy		Becomes dark gray.	
5	10						Becomes with strong chemical-like odor.	5
					PID=314 Sheen=Slight		Rubber sheet.	
					PID=226 Sheen=Heavy		SAND WITH SILT (SP-SM); very moist, dark gray; fine to coarse sand; trace, fine to coarse, subrounded gravel; strong chemical-like odor	
				SB-42-6-8	PID=316 Sheen=Moderate			
					PID=7.1		2-in layer with reddish oxidation staining.	
10	5	▽ 9/22/2022					**TIDAL FLAT DEPOSITS** SILT (ML); wet, dark gray; low plasticity; trace fine sand; strong chemical-like odor.	10
				SB-42-10-11	PID=60 Sheen=Moderate		**ALLUVIAL DEPOSITS** SAND WITH SILT (SP-SM); moist, dark brown; fine to medium sand; 2-in layer reddish oxidation staining at 11 ft bgs; no chemical-like odor.	
					PID=6.2 Sheen=Moderate		Bottom of exploration at 12 ft. bgs.	
15	0							15
20	-5							20

Legend

Sample Type
- ◯ No Soil Sample Recovery
- ▮▮ Continuous core 4" ID
- ▩ Grab sample

Water Level
- ▽ Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: MMR
Approved by: AJY

Exploration Log SB-42

Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\190293_SOUTH_PARK_MARINA.GPJ August 26, 2024

Aspect CONSULTING	South Park Marina - 190293		Environmental Exploration Log	
	Project Address & Site Specific Location 8604 Dallas Avenue South, Seattle, WA, 98108, W of Barrel Pond		*Coordinates (SPN NAD83 ft)* E:1275084 N:195769 (est)	*Exploration Number* **SB-43**
Contractor Holt	*Equipment* Terra Sonic 150CC	*Sampling Method* Rotary core	*Ground Surface Elev. (NAVD88)* 15.1' (est)	
Operator Quaid Curtis	*Exploration Method(s)* Sonic	*Work Start/Completion Dates* 9/26/2022	*Top of Casing Elev. (NAVD88)* NA	*Depth to Water (Below GS)* 8' (ATD)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
	15	Concrete patch			PID=0.3 Sheen=Slight platty		Surface cover: gravel base course **FILL** SILTY SAND WITH GRAVEL (SM); slightly moist, brown; fine to coarse sand; fine to coarse, subangular to rounded gravel; trace roots and wood fibers; no chemical-like odor. Becomes moist.	
		Boring backfilled with 3/8-in hydrated bentonite chips, NSF 60.		SB-43-2.5-3.5	PID=6.2 Sheen=Slight PID=26.2 Sheen=Slight		SAND WITH SILT (SP-SM); moist, brown; fine to medium sand; 1/16-in oxidized layers; no chemical-like odor.	
5	10				PID=14.2 Sheen=Slight PID=12.7 Sheen=Slight		1/2-in layer of gray Silty SAND.	5
		▽ 9/26/2022			PID=4.9 Sheen=None		Becomes dark gray with trace red sand.	
				SB-43-8-9	PID=0 Sheen=None PID=1.7 Sheen=None		SILTY SAND (SM); moist, brown to dark gray; some silt; fine to medium sand; lamination of sand and silt layers; no chemical-like odor. SAND (SP); wet, dark gray; fine to medium sand; trace silt; trace red sand; no chemical-like odor.	
10	5			SB-43-10-11	PID=0 Sheen=None PID=0.3 Sheen=None		**TIDAL FLAT DEPOSITS** SILTY SAND (SM); wet, dark gray; some silt; fine to medium sand; slight sulfur-like odor.	10
				SB-43-11-12	PID=0.1 Sheen=None		SILT (ML); very moist, dark gray; low to medium plasticity; trace nodules of brown silt; trace wood fibers and twigs; slight sulfur-like odor. 1/4-in layer of decomposing wood fragments. **ALLUVIAL DEPOSITS** SAND WITH SILT (SP-SM); very moist, brown to red brown; fine to medium sand; trace red sand; no chemical-like odor. Bottom of exploration at 12 ft. bgs.	
15	0							15
20	-5							20

Legend

Sample Type
- ◯ No Soil Sample Recovery
- ◧ Continuous core 4" ID
- ▩ Grab sample

Water Level
- ▽ Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: DJM
Approved by: AJY

Exploration Log SB-43
Sheet 1 of 1

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\190293_SOUTH_PARK_MARINA.GPJ August 26, 2024

APPENDIX C

Groundwater Elevation Studies

APPENDIX C.1

Phase 1 Tidal Study - Hydrographs by Area

Figure C.1.A - Phase 1 Tidal Study - Hydrographs - Southeast SPM Property Corner Wells
South Park Marina Site, Seattle, Washington

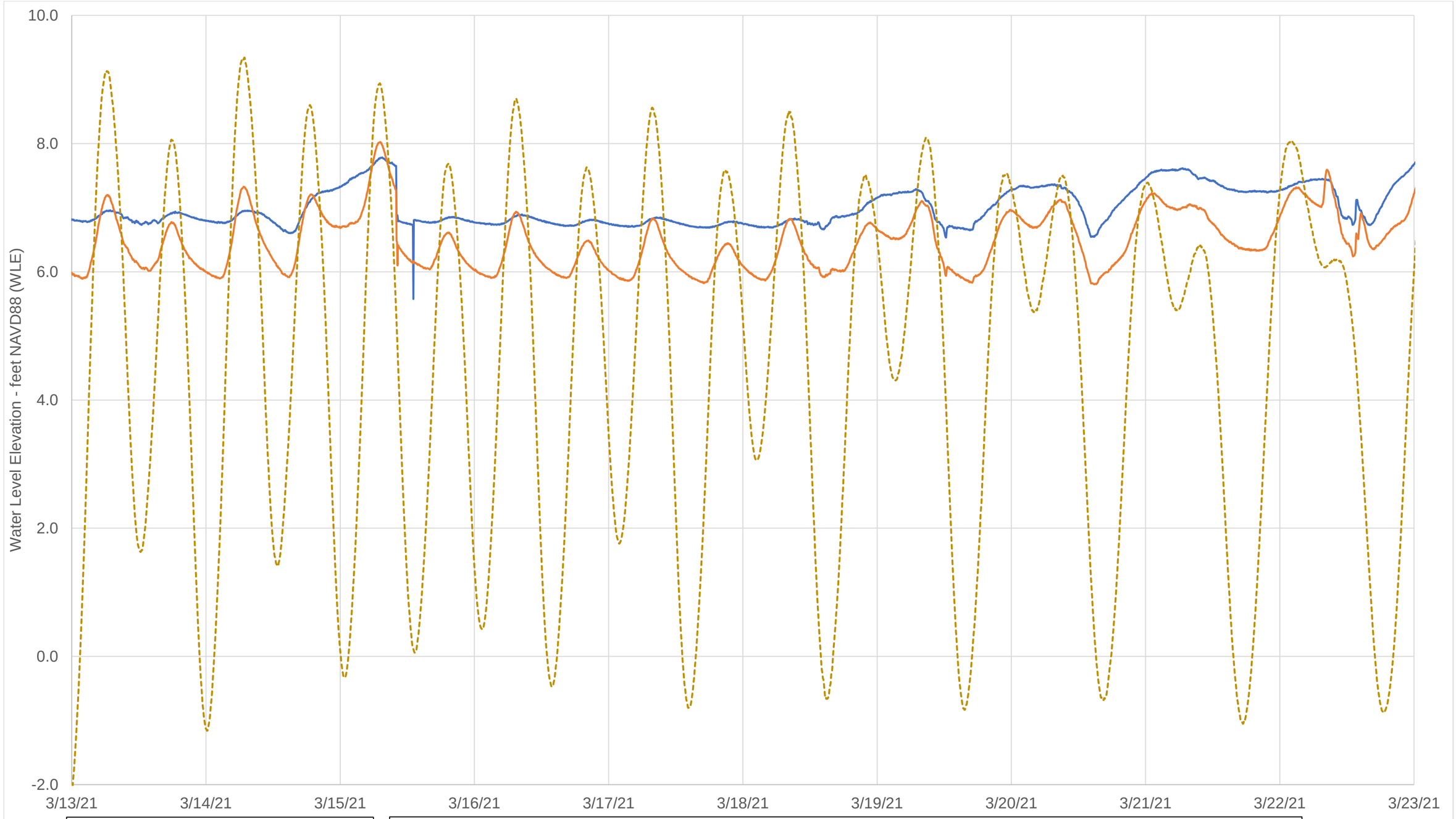
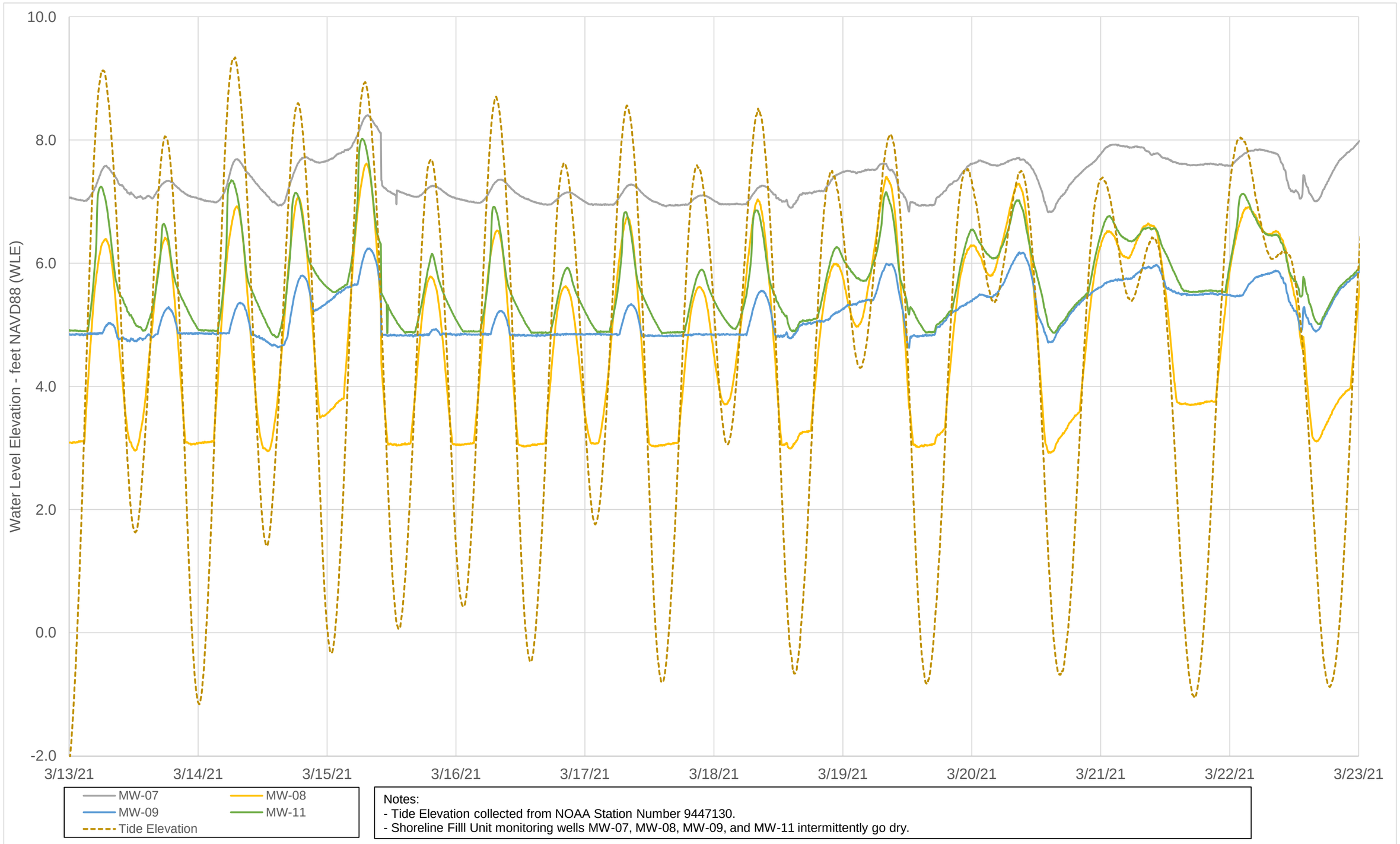
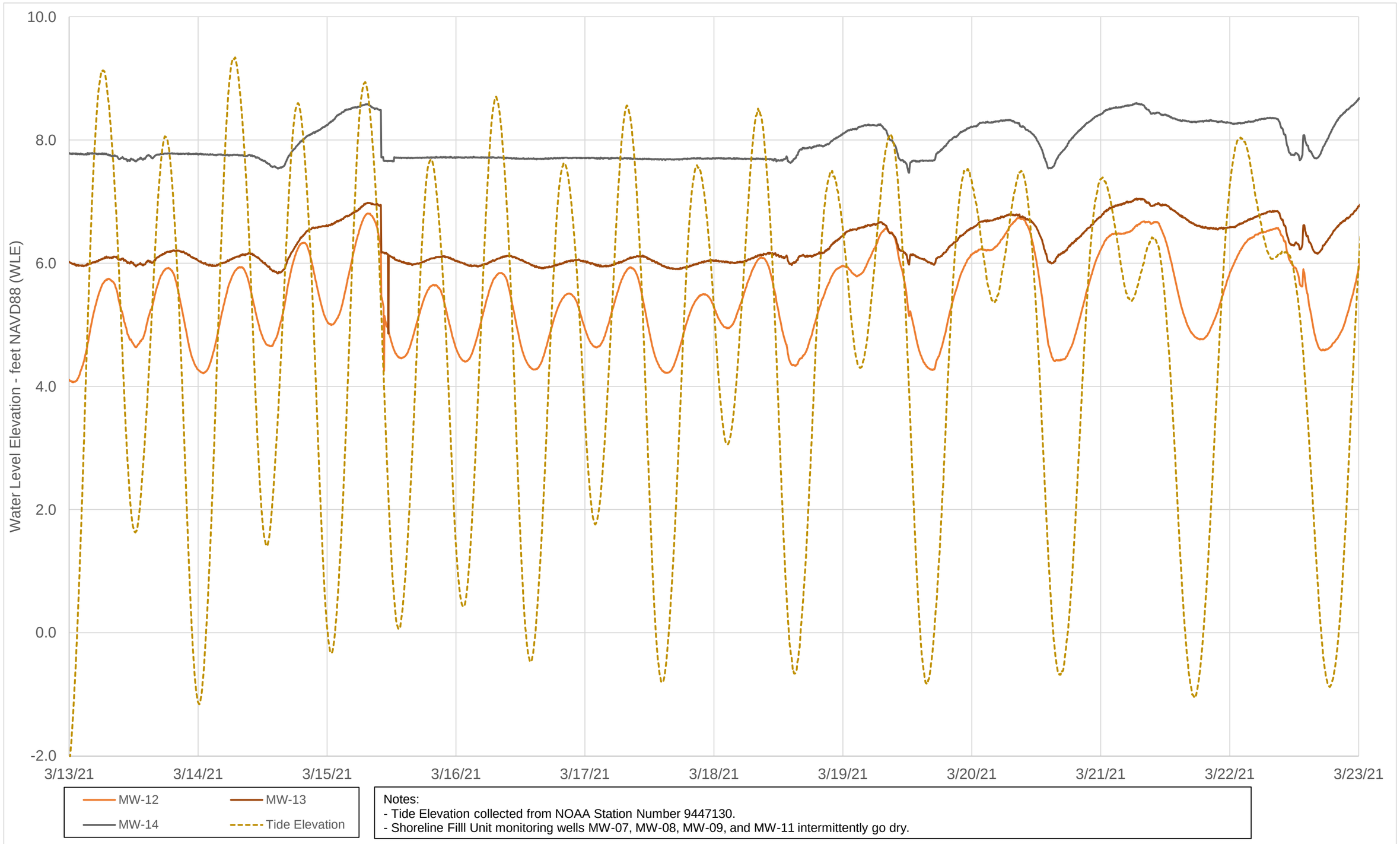


Figure C.1.B - Phase 1 Tidal Study - Hydrographs - Shoreline Wells
South Park Marina Site, Seattle, Washington



Notes:
- Tide Elevation collected from NOAA Station Number 9447130.
- Shoreline Filll Unit monitoring wells MW-07, MW-08, MW-09, and MW-11 intermittently go dry.

Figure C.1.C - Phase 1 Tidal Study - Hydrographs - Inland Wells
South Park Marina Site, Seattle, Washington

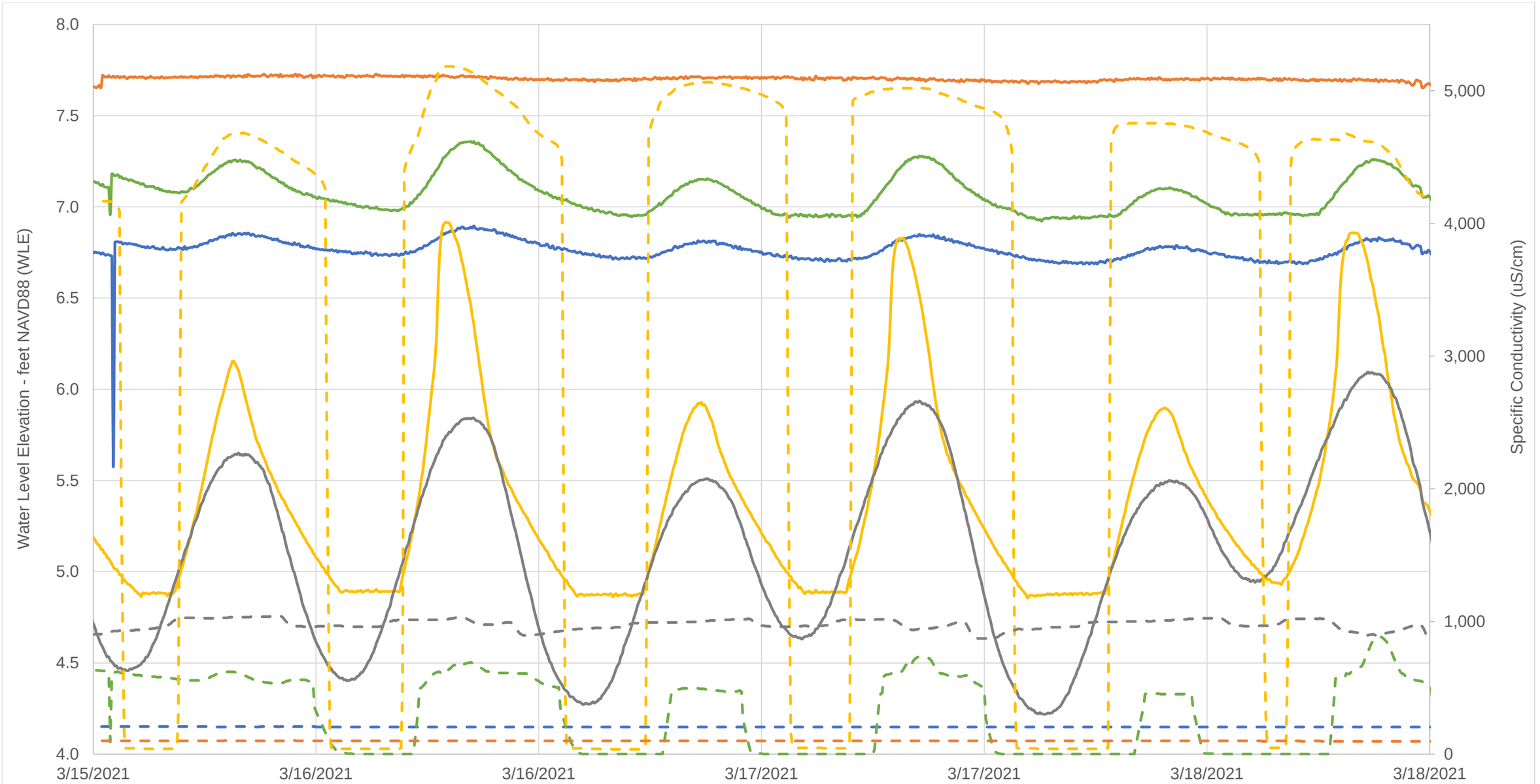


Notes:
- Tide Elevation collected from NOAA Station Number 9447130.
- Shoreline Filll Unit monitoring wells MW-07, MW-08, MW-09, and MW-11 intermittently go dry.

APPENDIX C.2

Phase 1 Tidal Study -
Water Level vs. Conductivity Chart

Figure C.2 - Phase 1 Tidal Study - Conductivity vs. Water Level Elevations
South Park Marina Site, Seattle, Washington

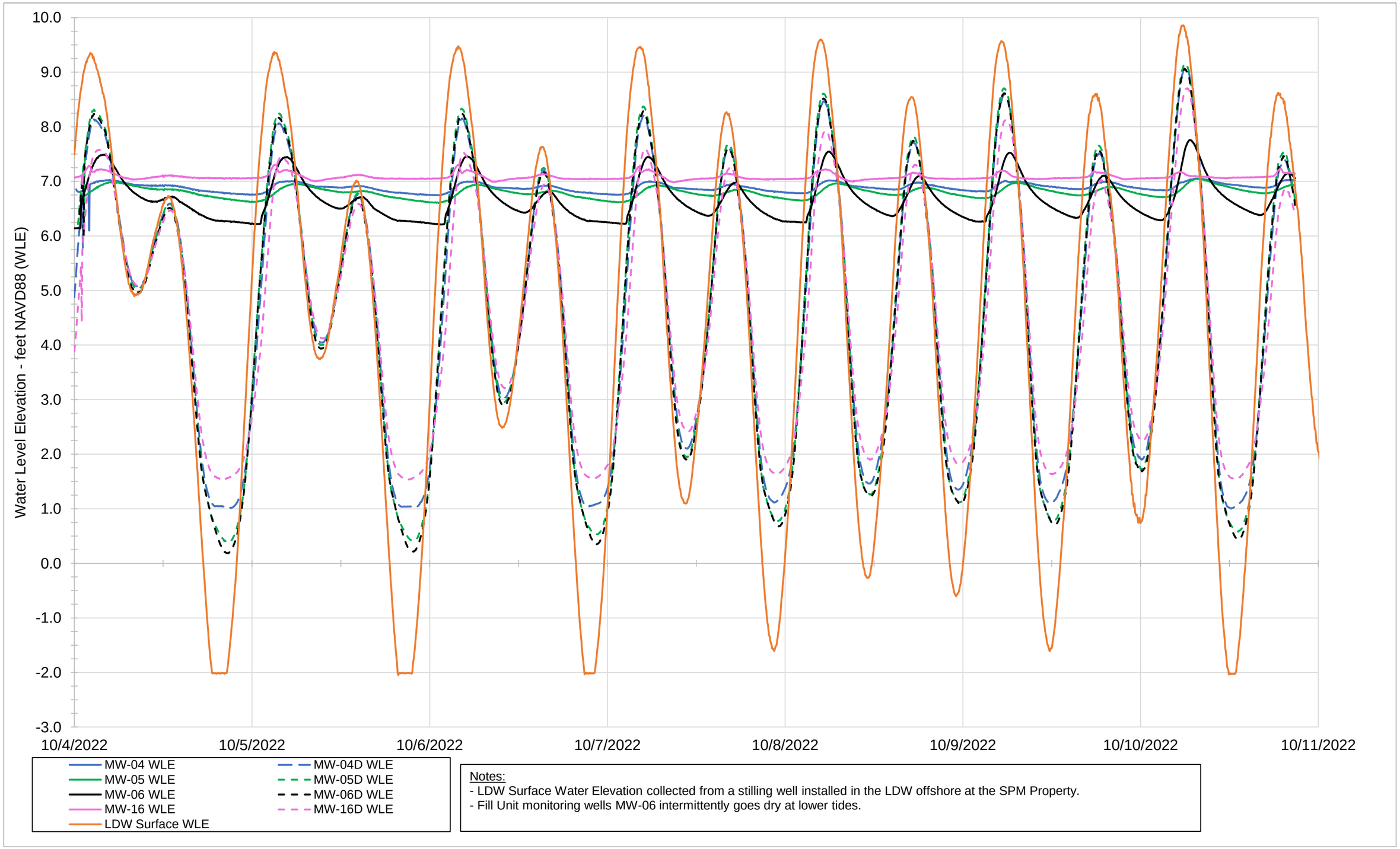


Notes:
- Tide Elevation collected from NOAA Station Number 9447130.
- Specific conductivity measurements of 0 indicate that the transducer was not submerged, and the monitoring well is intermittently dry at lower tidal stages.

APPENDIX C.3

Phase 2 Tidal Study - Hydrographs by Area

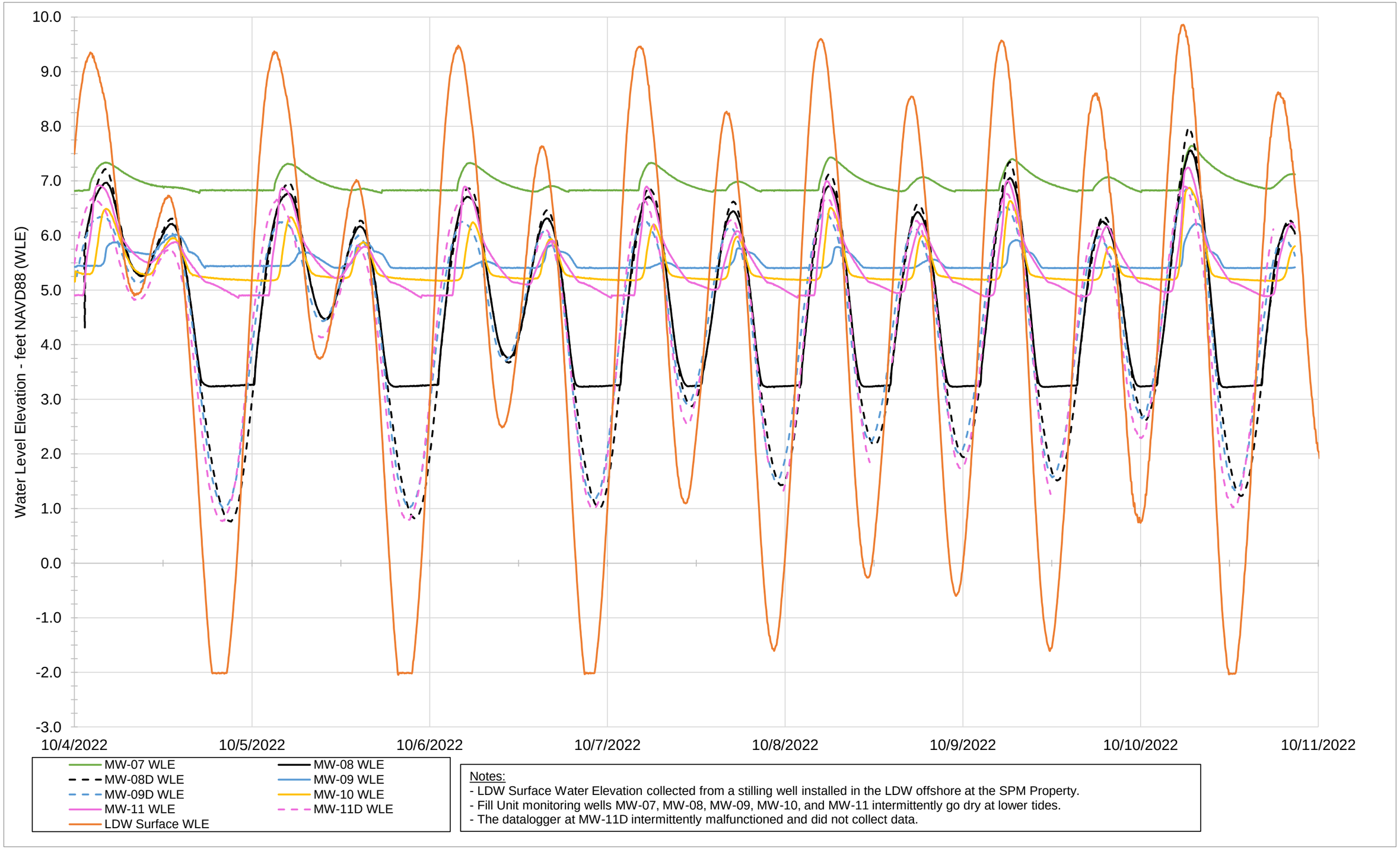
Figure C.3.A - Hydrographs - Southeast SPM Property Corner Wells
South Park Marina, Seattle, Washington



Notes:
- LDW Surface Water Elevation collected from a stilling well installed in the LDW offshore at the SPM Property.
- Fill Unit monitoring wells MW-06 intermittently goes dry at lower tides.

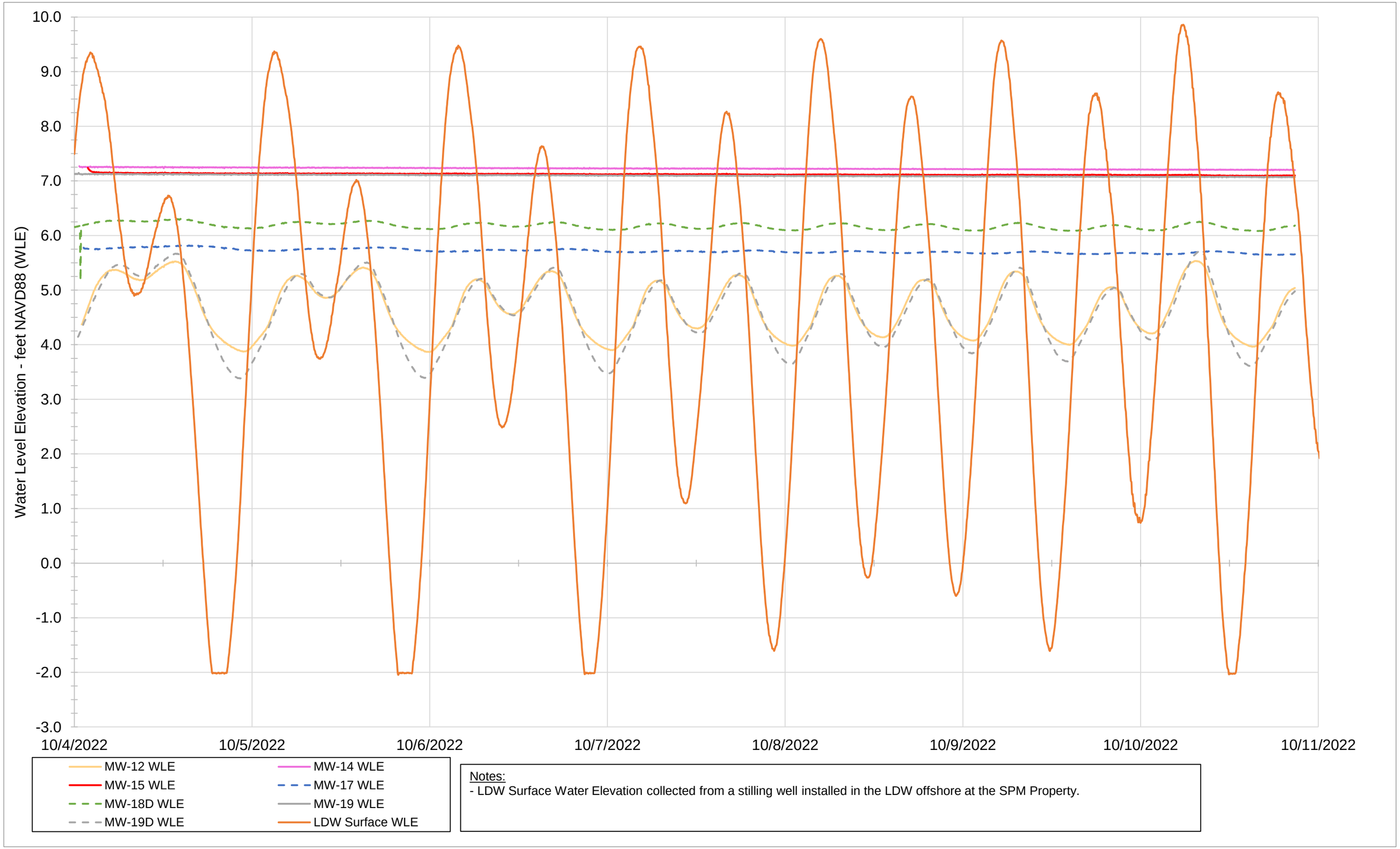
Figure C.3.B - Hydrographs - Shoreline Wells

South Park Marina, Seattle, Washington



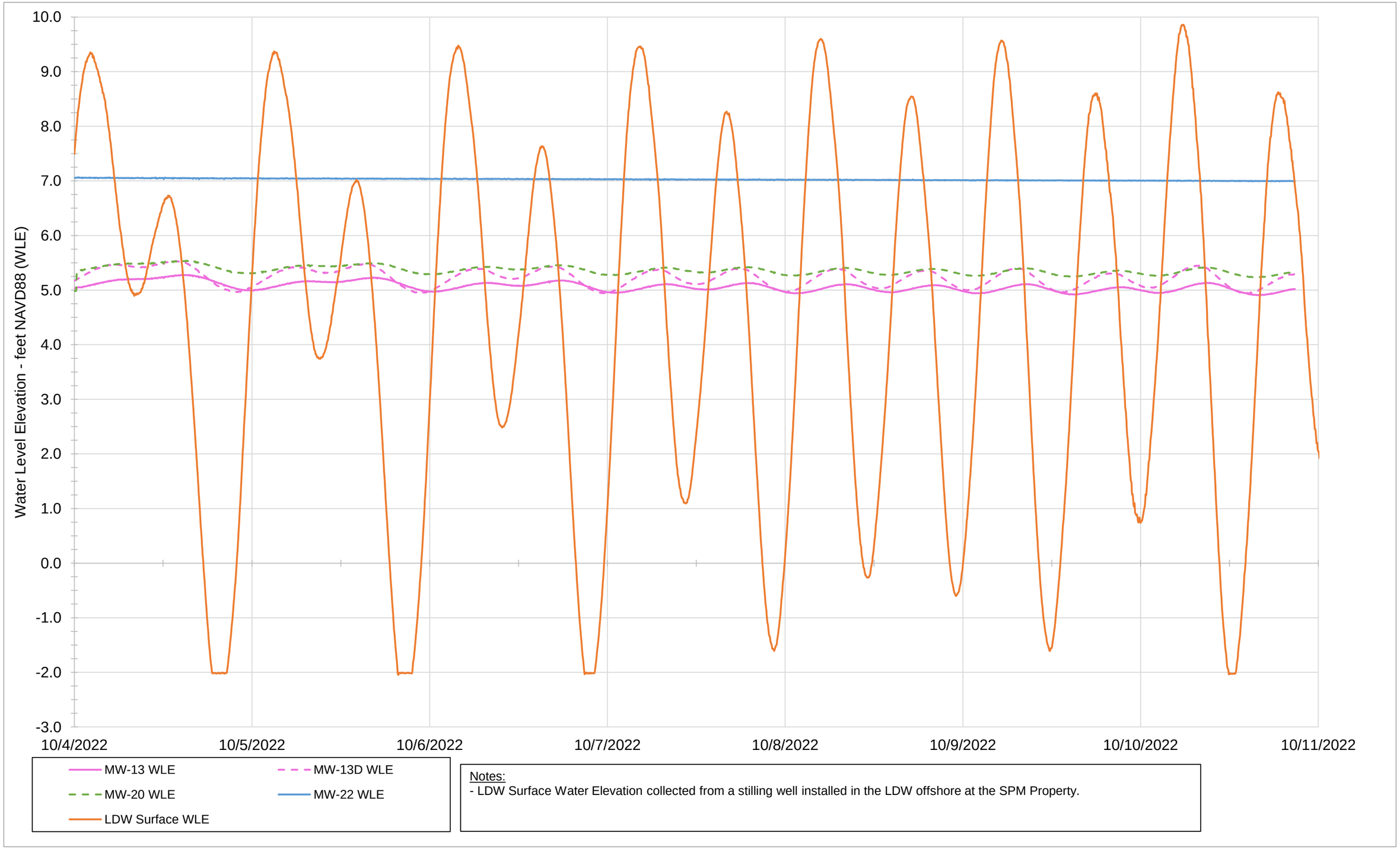
Notes:
- LDW Surface Water Elevation collected from a stilling well installed in the LDW offshore at the SPM Property.
- Fill Unit monitoring wells MW-07, MW-08, MW-09, MW-10, and MW-11 intermittently go dry at lower tides.
- The datalogger at MW-11D intermittently malfunctioned and did not collect data.

Figure C.3.C - Hydrographs - Inland Wells
South Park Marina, Seattle, Washington



Notes:
- LDW Surface Water Elevation collected from a stilling well installed in the LDW offshore at the SPM Property.

Figure C.3.D - Hydrographs - Former Service Station Area Wells
South Park Marina, Seattle, Washington

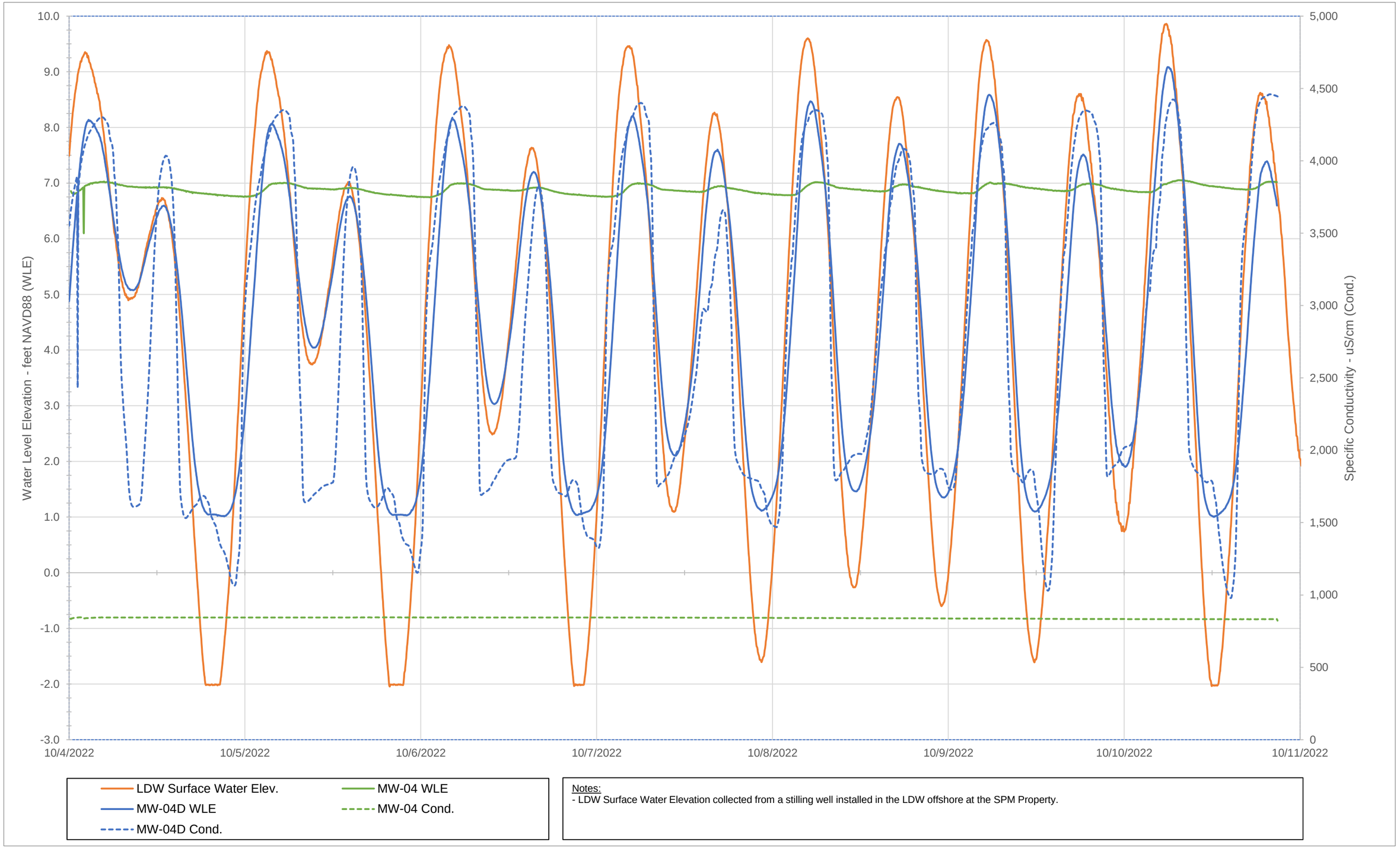


Notes:
- LDW Surface Water Elevation collected from a stilling well installed in the LDW offshore at the SPM Property.

APPENDIX C.4

Phase 2 Tidal Study - Water Level and Conductivity Charts for Individual / Paired Wells

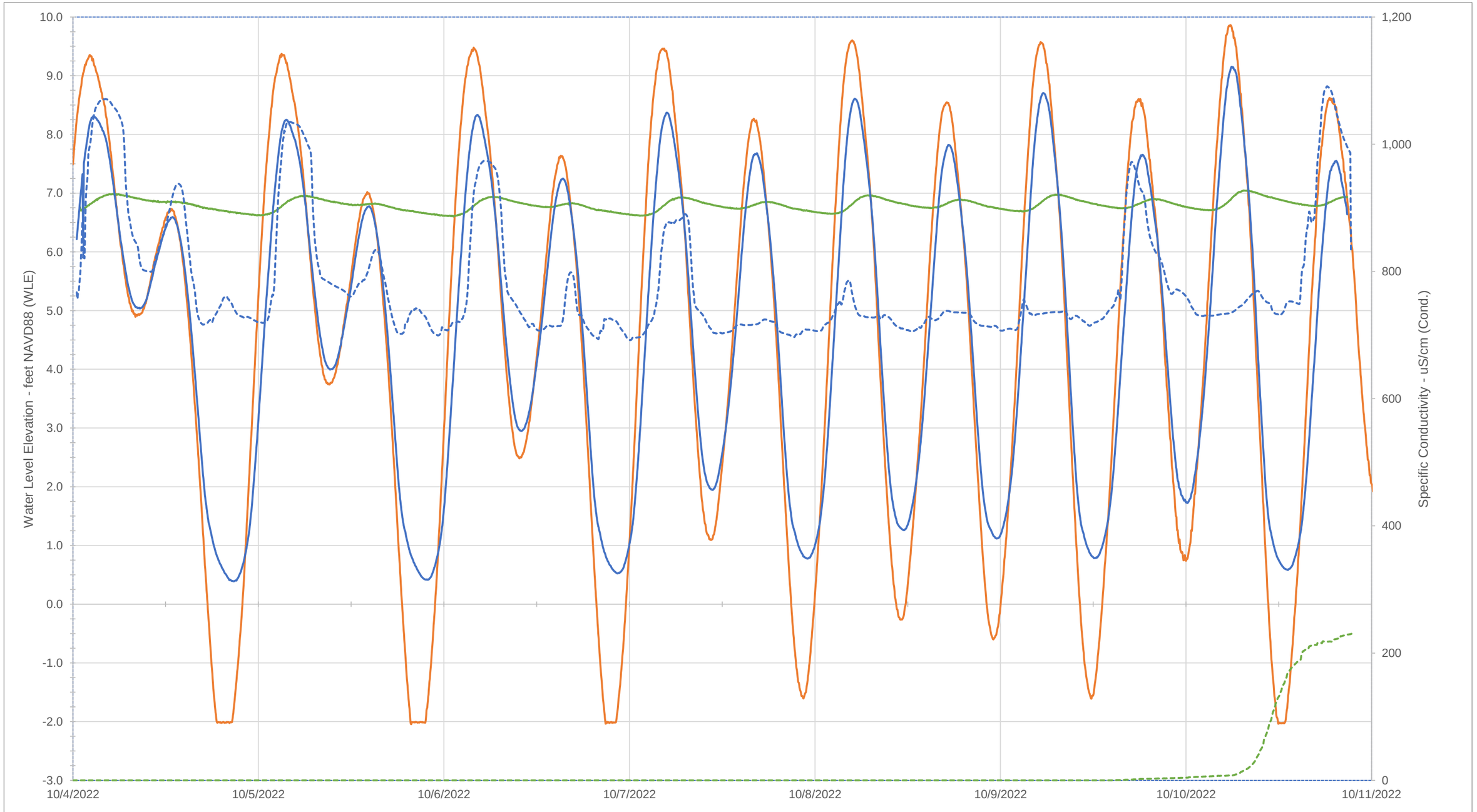
Figure C.4.A - Phase 2 Tidal Study - Water Level vs. Conductivity - MW-04/MW-04D
South Park Marina Site, Seattle, Washington



Notes:
- LDW Surface Water Elevation collected from a stilling well installed in the LDW offshore at the SPM Property.

Aspect Consulting
10/02/2024
S:\Seattle City Light\South Park Marina RI\Data\Analyses\Tidal Study\Phase 2\Compiled Diver Data

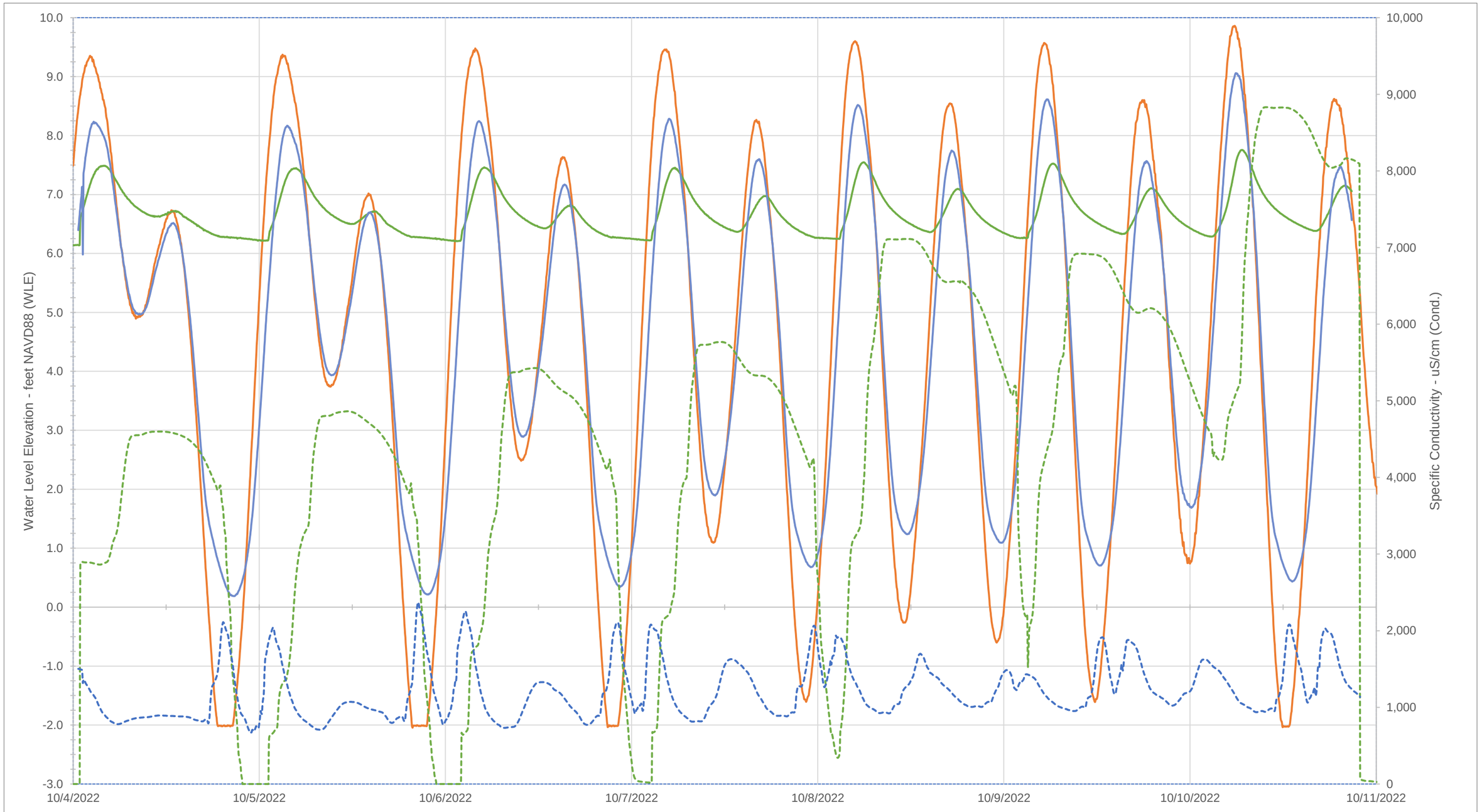
Figure C.4.B - Phase 2 Tidal Study - Water Level vs. Conductivity - MW-05/MW-05D
South Park Marina Site, Seattle, Washington



Notes:
- LDW Surface Water Elevation collected from a stilling well installed in the LDW offshore at the SPM Property.
- The conductivity sensor for the datalogger in MW-05 recorded less than 10 uS/cm for the majority of the tidal study; the sensor was possibly coated with light nonaqueous phase liquid (LNAPL) and not accurately measuring conductivity.

Aspect Consulting
10/02/2024
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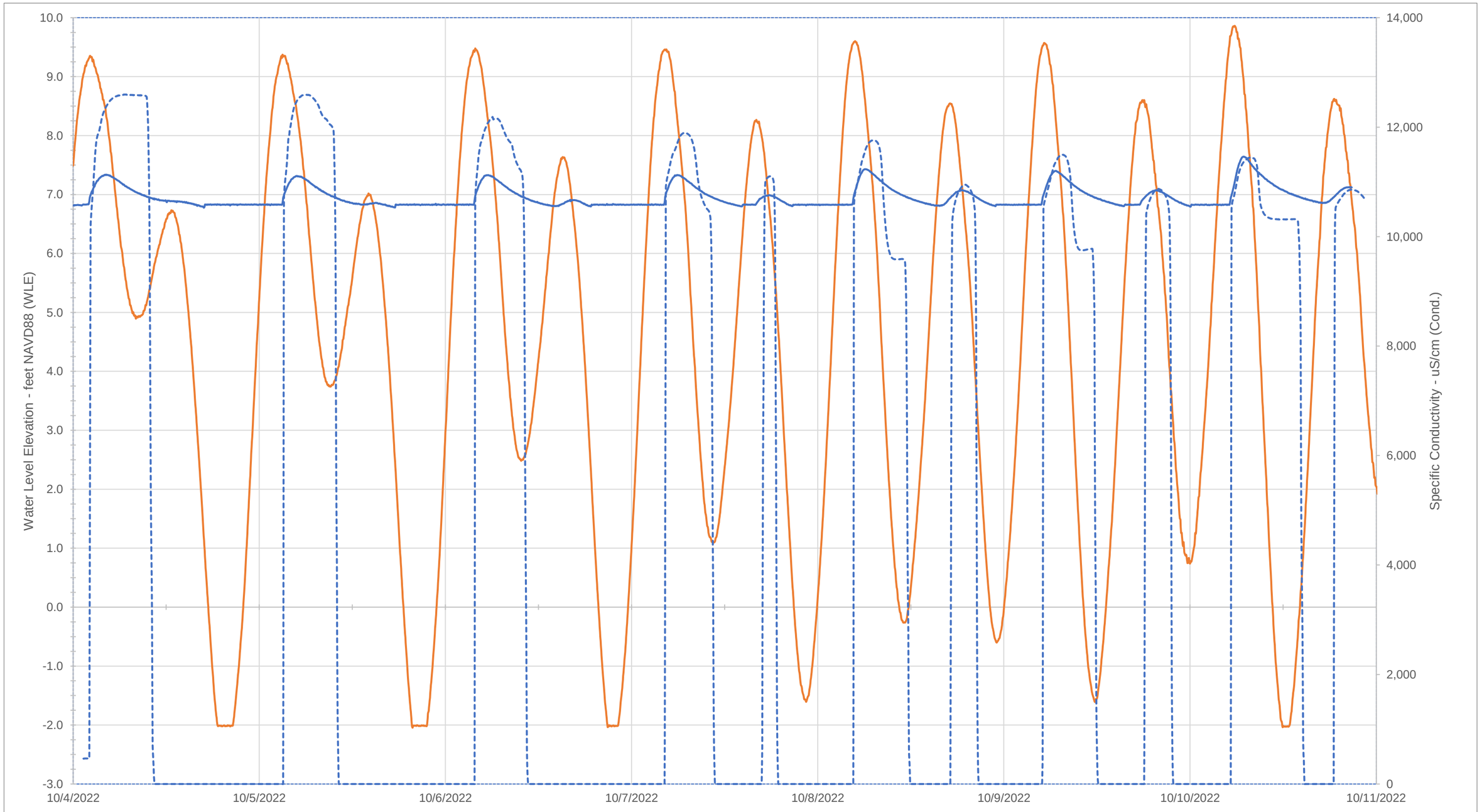
Figure C.4.C - Phase 2 Tidal Study - Water Level vs. Conductivity - MW-06/MW-06D
South Park Marina Site, Seattle, Washington



Notes:
- LDW Surface Water Elevation collected from a stilling well installed in the LDW offshore at the SPM Property.
- Specific conductivity measurements of 0 indicate that the transducer was not submerged, and the monitoring well is intermittently dry at lower tidal stages.
- The temperature sensor for the datalogger in MW-06 failed, and so the conductivity shown is the actual measured conductivity and not specific conductivity.

Aspect Consulting
10/02/2024
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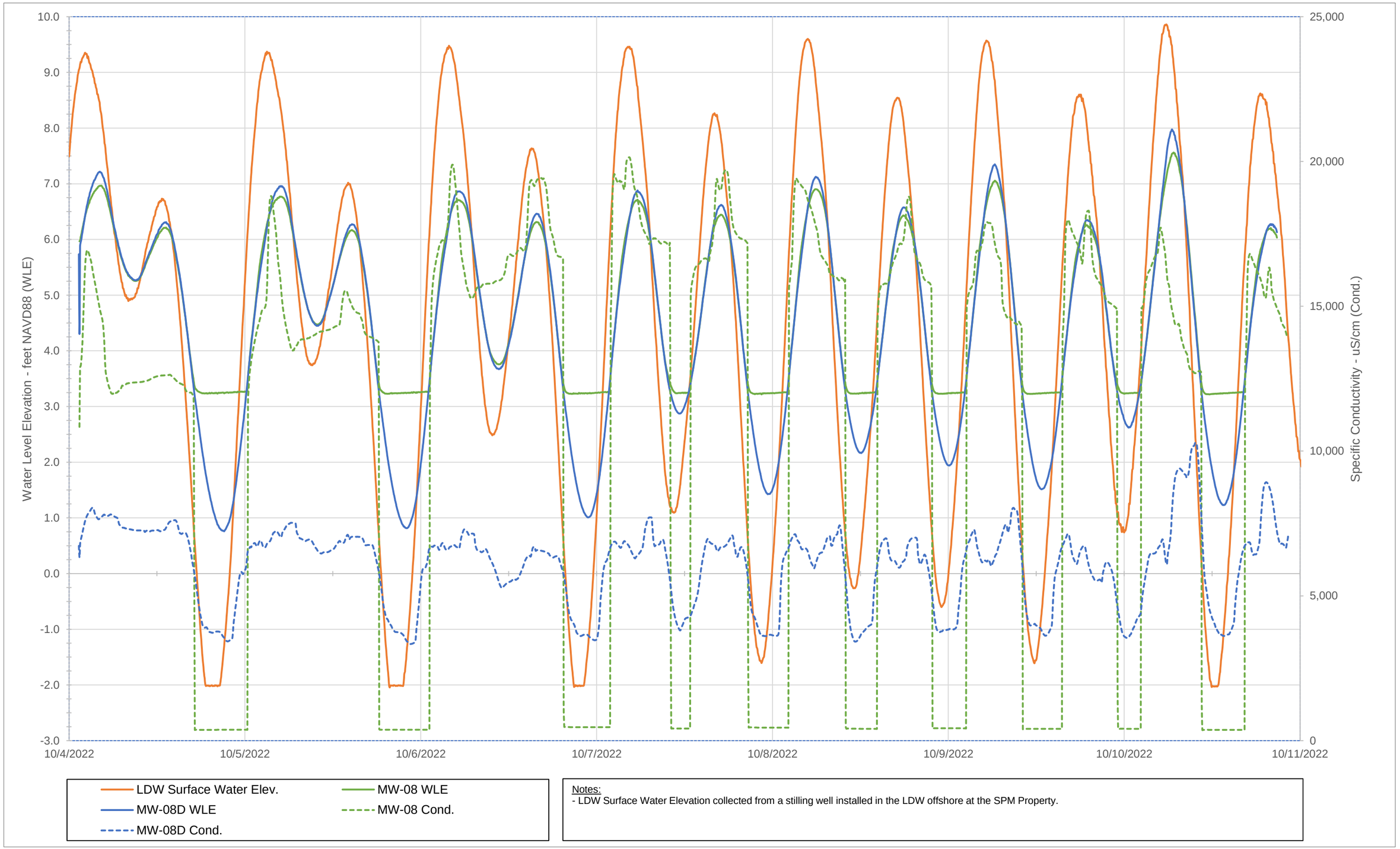
Figure C.4.D - Phase 2 Tidal Study - Water Level vs. Conductivity - MW-07
South Park Marina Site, Seattle, Washington



Notes:
- LDW Surface Water Elevation collected from a stilling well installed in the LDW offshore at the SPM Property.
- Specific conductivity measurements of 0 indicate that the transducer was not submerged, and the monitoring well is intermittently dry at lower tidal stages.

Aspect Consulting
10/02/2024
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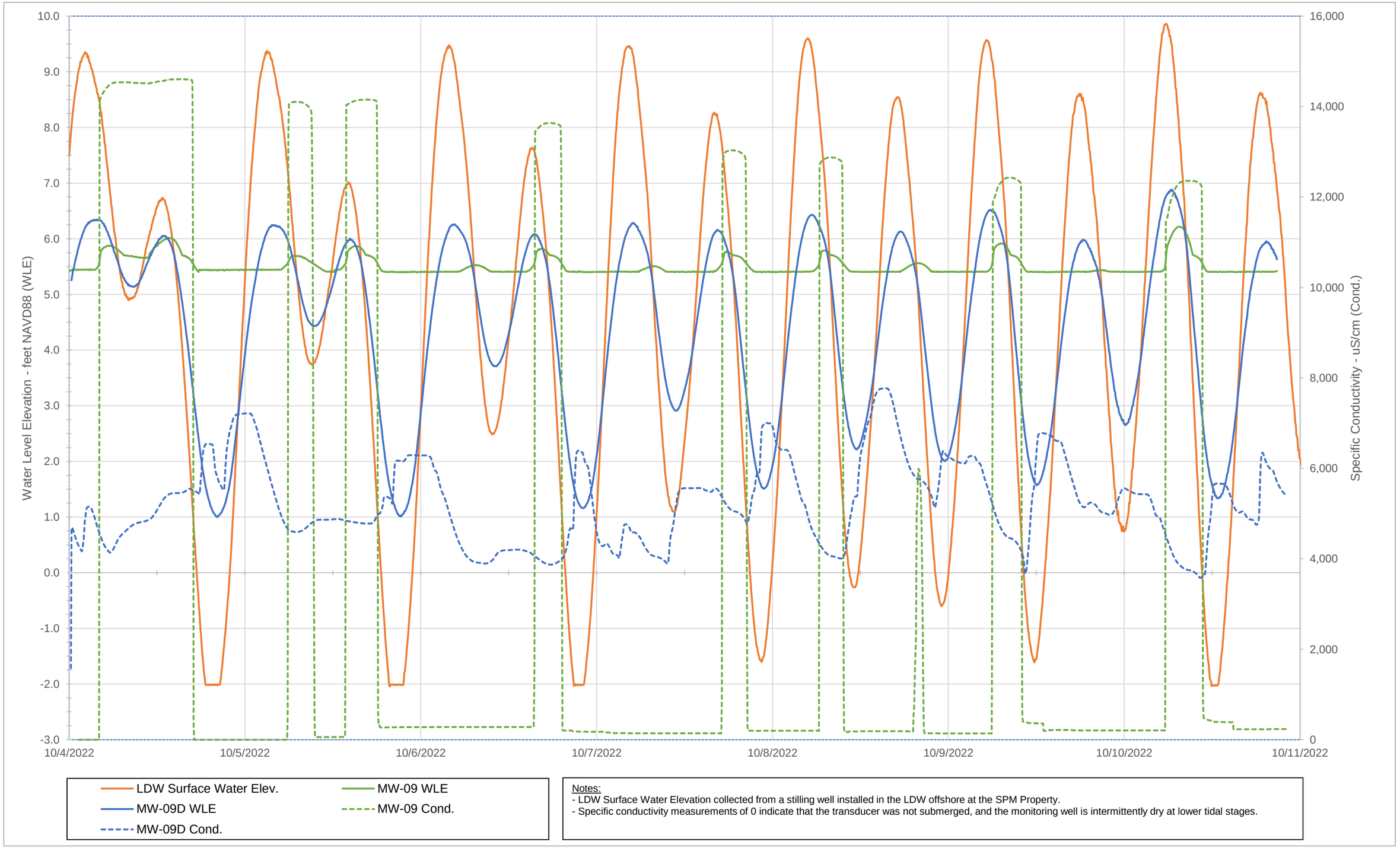
Figure C.4.E - Phase 2 Tidal Study - Water Level vs. Conductivity - MW-08/MW-08D
South Park Marina Site, Seattle, Washington



Notes:
- LDW Surface Water Elevation collected from a stilling well installed in the LDW offshore at the SPM Property.

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Figure C.4.F - Phase 2 Tidal Study - Water Level vs. Conductivity - MW-09/MW-09D
South Park Marina Site, Seattle, Washington

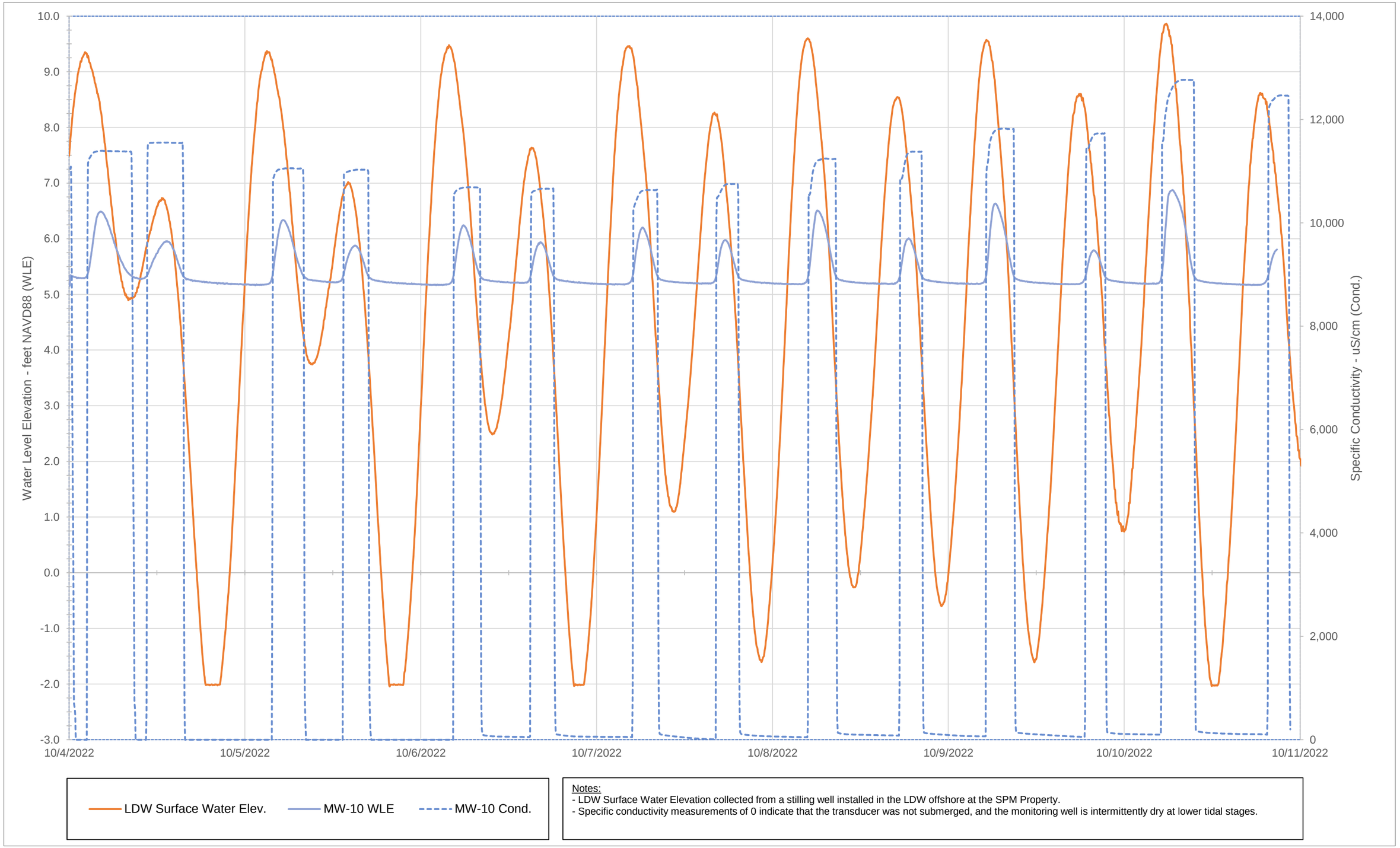


Notes:
- LDW Surface Water Elevation collected from a stilling well installed in the LDW offshore at the SPM Property.
- Specific conductivity measurements of 0 indicate that the transducer was not submerged, and the monitoring well is intermittently dry at lower tidal stages.

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Figure C.4.G - Phase 2 Tidal Study - Water Level vs. Conductivity - MW-10

South Park Marina Site, Seattle, Washington



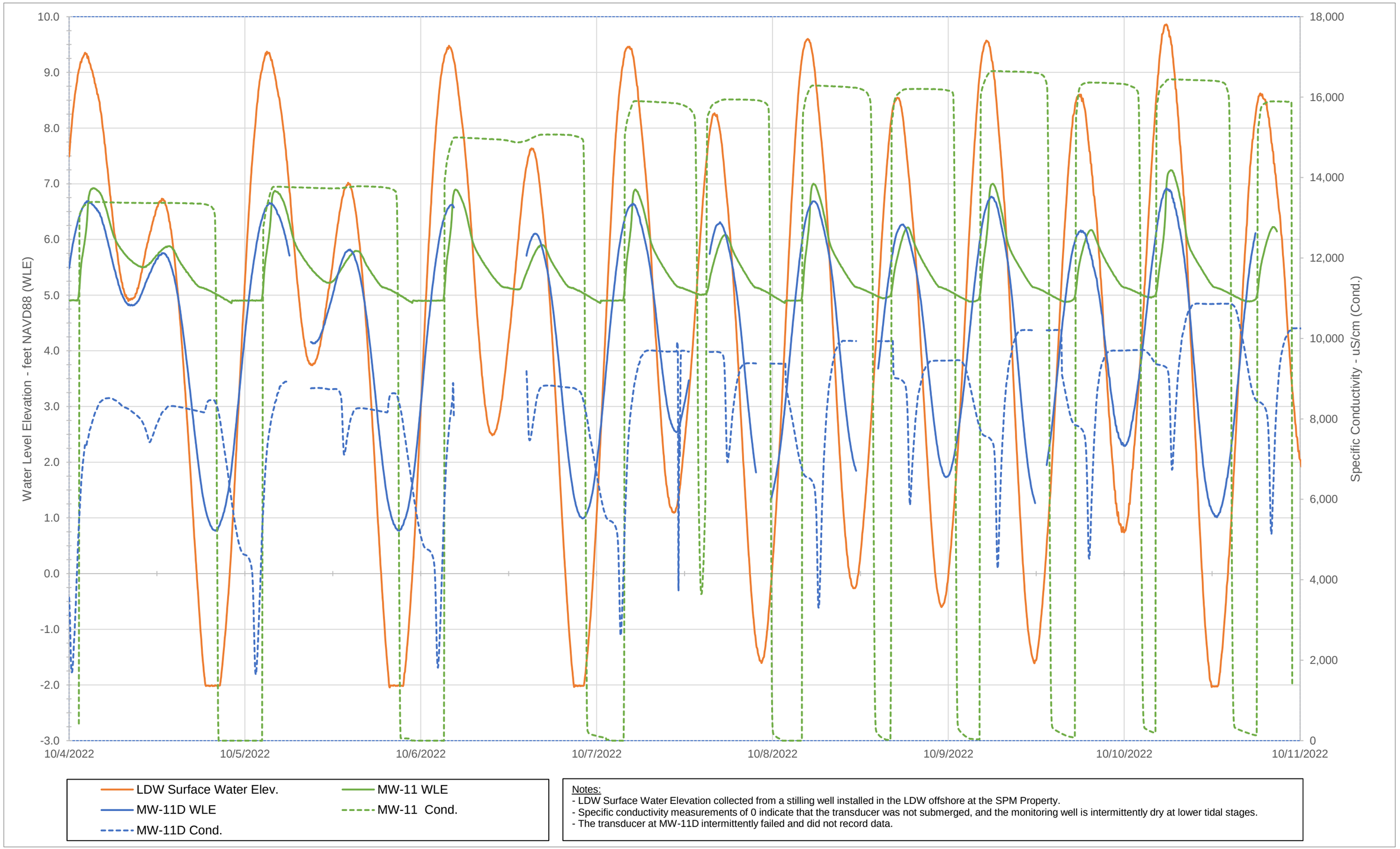
Notes:
- LDW Surface Water Elevation collected from a stilling well installed in the LDW offshore at the SPM Property.
- Specific conductivity measurements of 0 indicate that the transducer was not submerged, and the monitoring well is intermittently dry at lower tidal stages.

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10/02/2024

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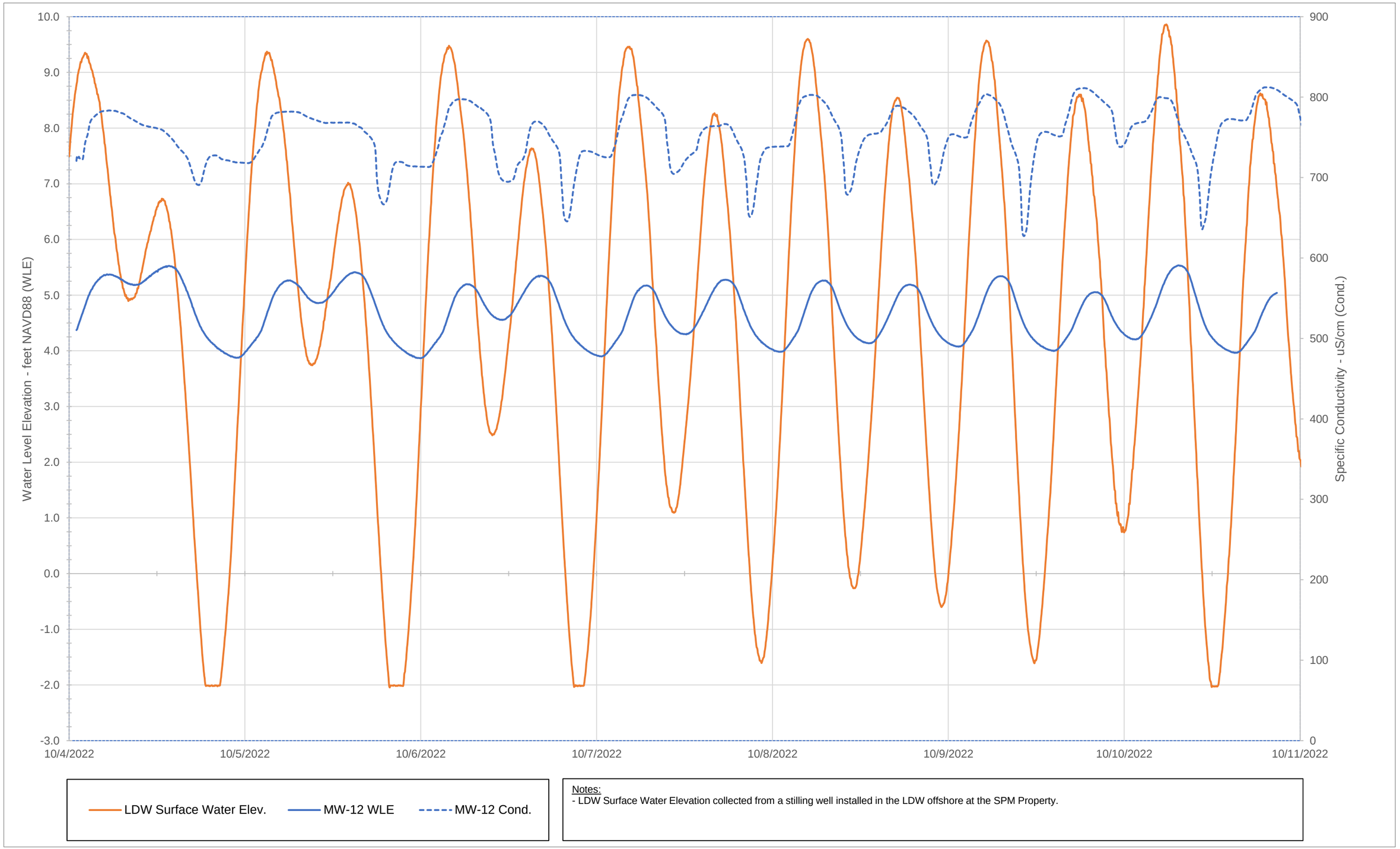
Figure C.4.H - Phase 2 Tidal Study - Water Level vs. Conductivity - MW-11/MW-11D
South Park Marina Site, Seattle, Washington



Notes:
- LDW Surface Water Elevation collected from a stilling well installed in the LDW offshore at the SPM Property.
- Specific conductivity measurements of 0 indicate that the transducer was not submerged, and the monitoring well is intermittently dry at lower tidal stages.
- The transducer at MW-11D intermittently failed and did not record data.

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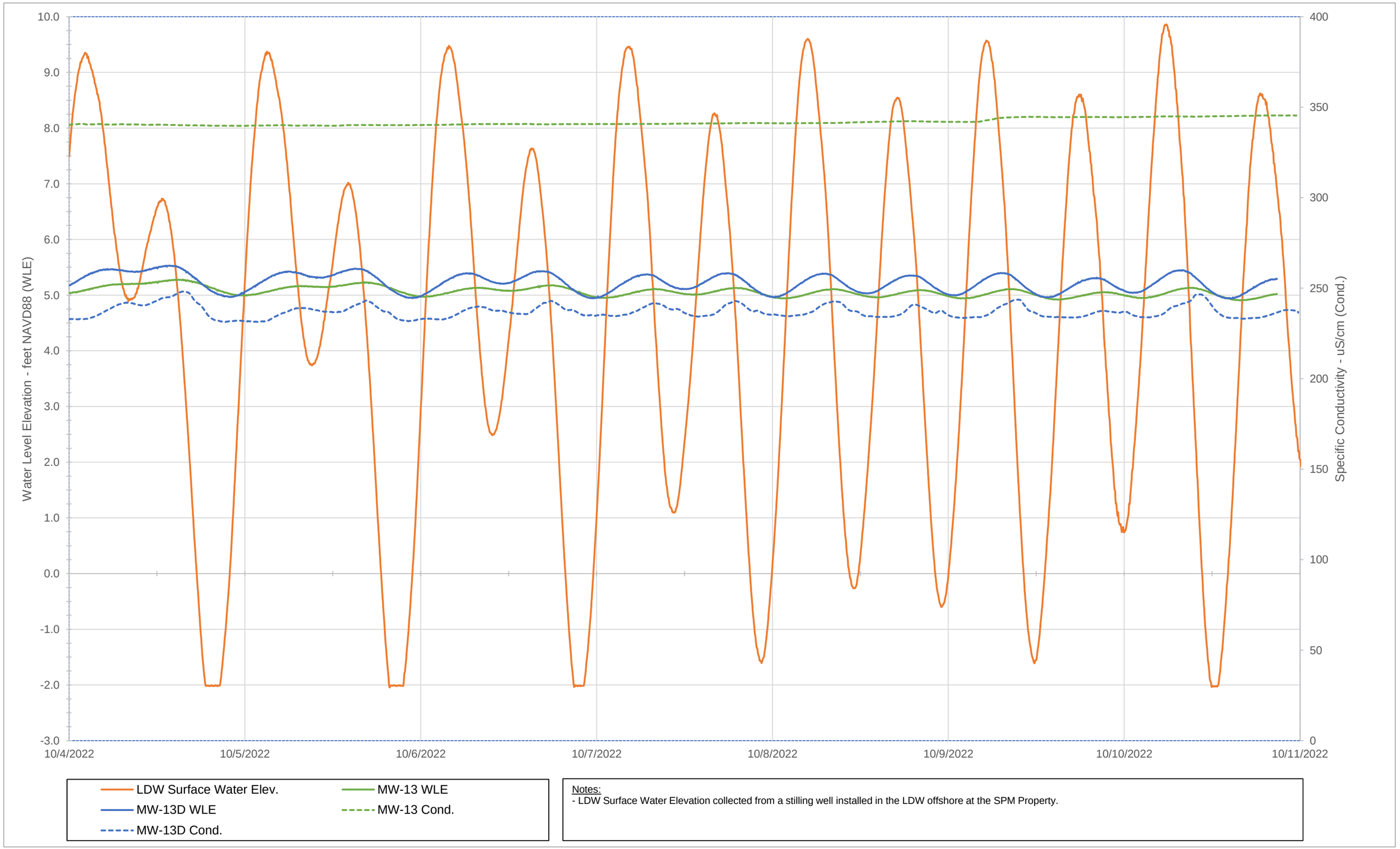
Figure C.4.I - Phase 2 Tidal Study - Water Level vs. Conductivity - MW-12
South Park Marina Site, Seattle, Washington



Notes:
- LDW Surface Water Elevation collected from a stilling well installed in the LDW offshore at the SPM Property.

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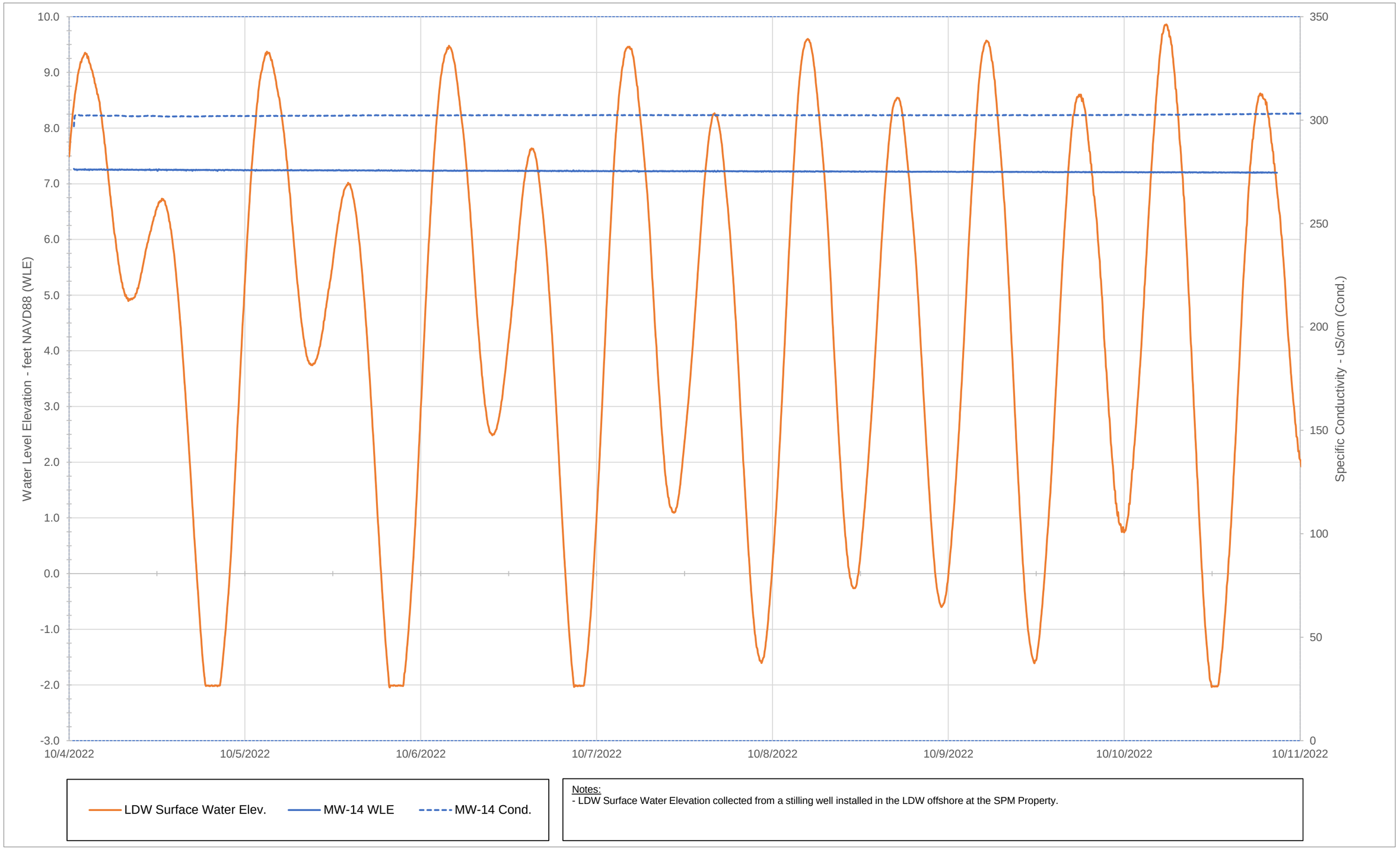
Figure C.4.J - Phase 2 Tidal Study - Water Level vs. Conductivity - MW-13/MW-13D
South Park Marina Site, Seattle, Washington



Notes:
- LDW Surface Water Elevation collected from a stilling well installed in the LDW offshore at the SPM Property.

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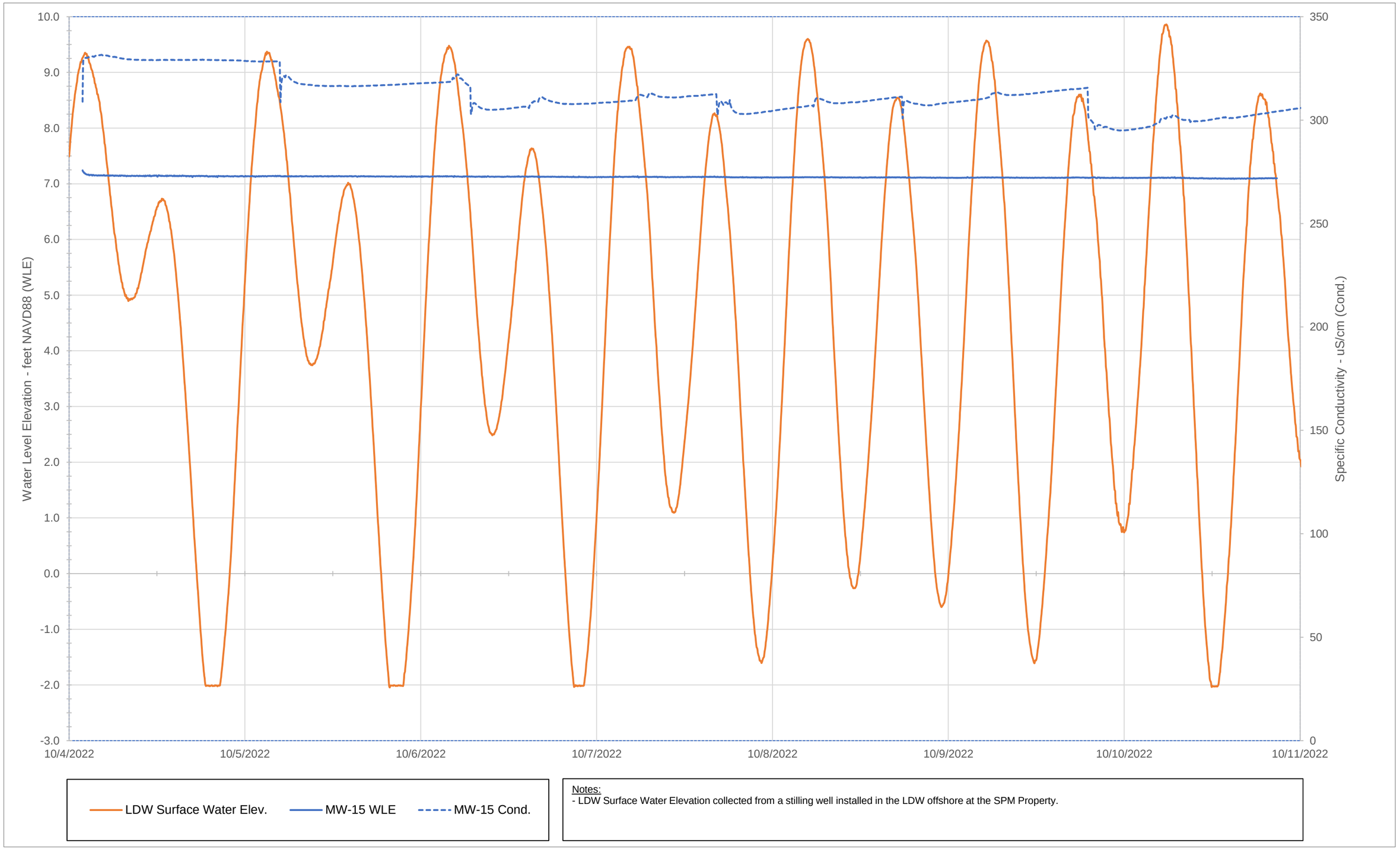
Figure C.4.K - Phase 2 Tidal Study - Water Level vs. Conductivity - MW-14
South Park Marina Site, Seattle, Washington



Notes:
- LDW Surface Water Elevation collected from a stilling well installed in the LDW offshore at the SPM Property.

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Figure C.4.L - Phase 2 Tidal Study - Water Level vs. Conductivity - MW-15
South Park Marina Site, Seattle, Washington

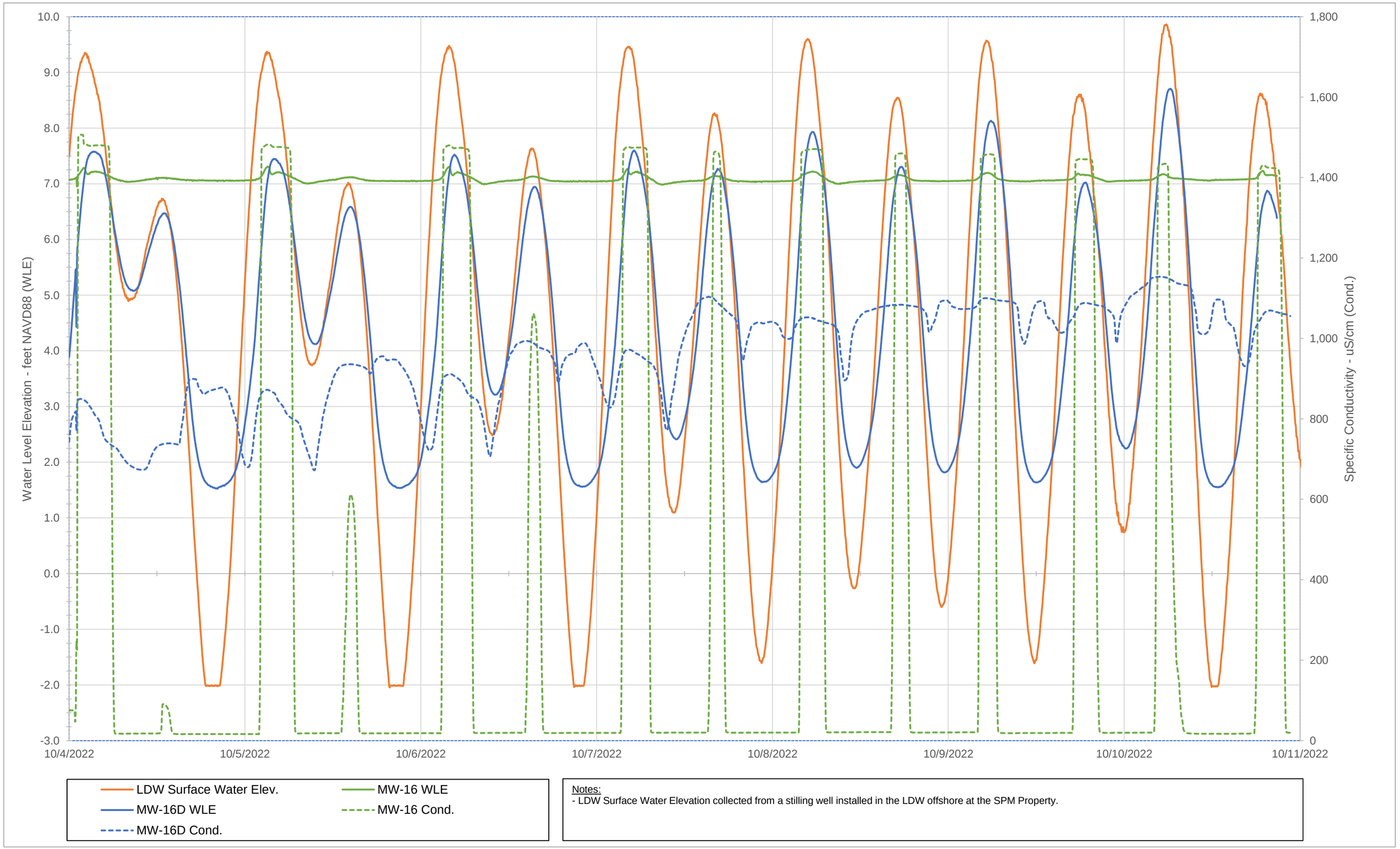


Notes:
- LDW Surface Water Elevation collected from a stilling well installed in the LDW offshore at the SPM Property.

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Figure C.4.M - Phase 2 Tidal Study - Water Level vs. Conductivity - MW-16/MW-16D

South Park Marina Site, Seattle, Washington



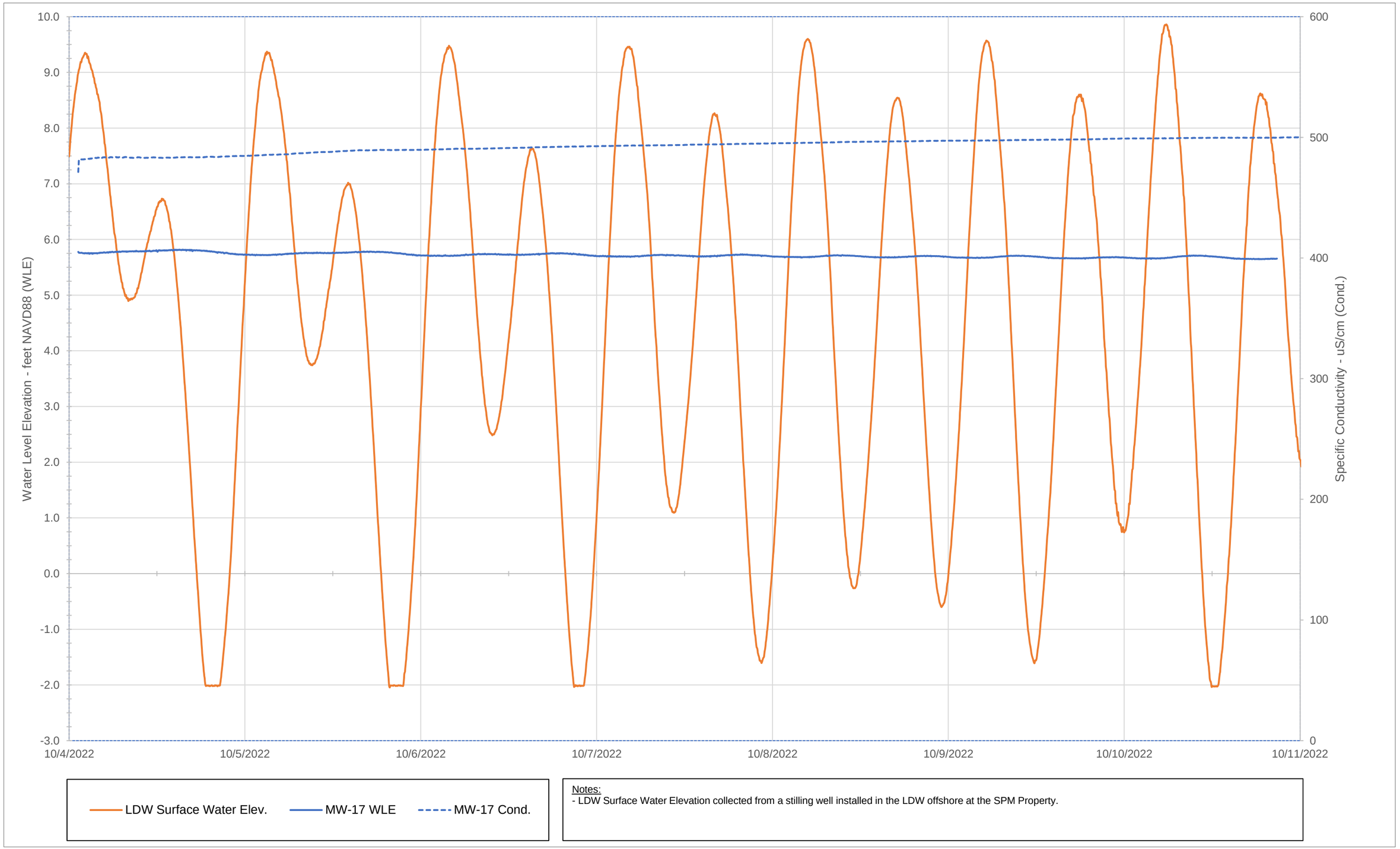
Notes:
- LDW Surface Water Elevation collected from a stilling well installed in the LDW offshore at the SPM Property.

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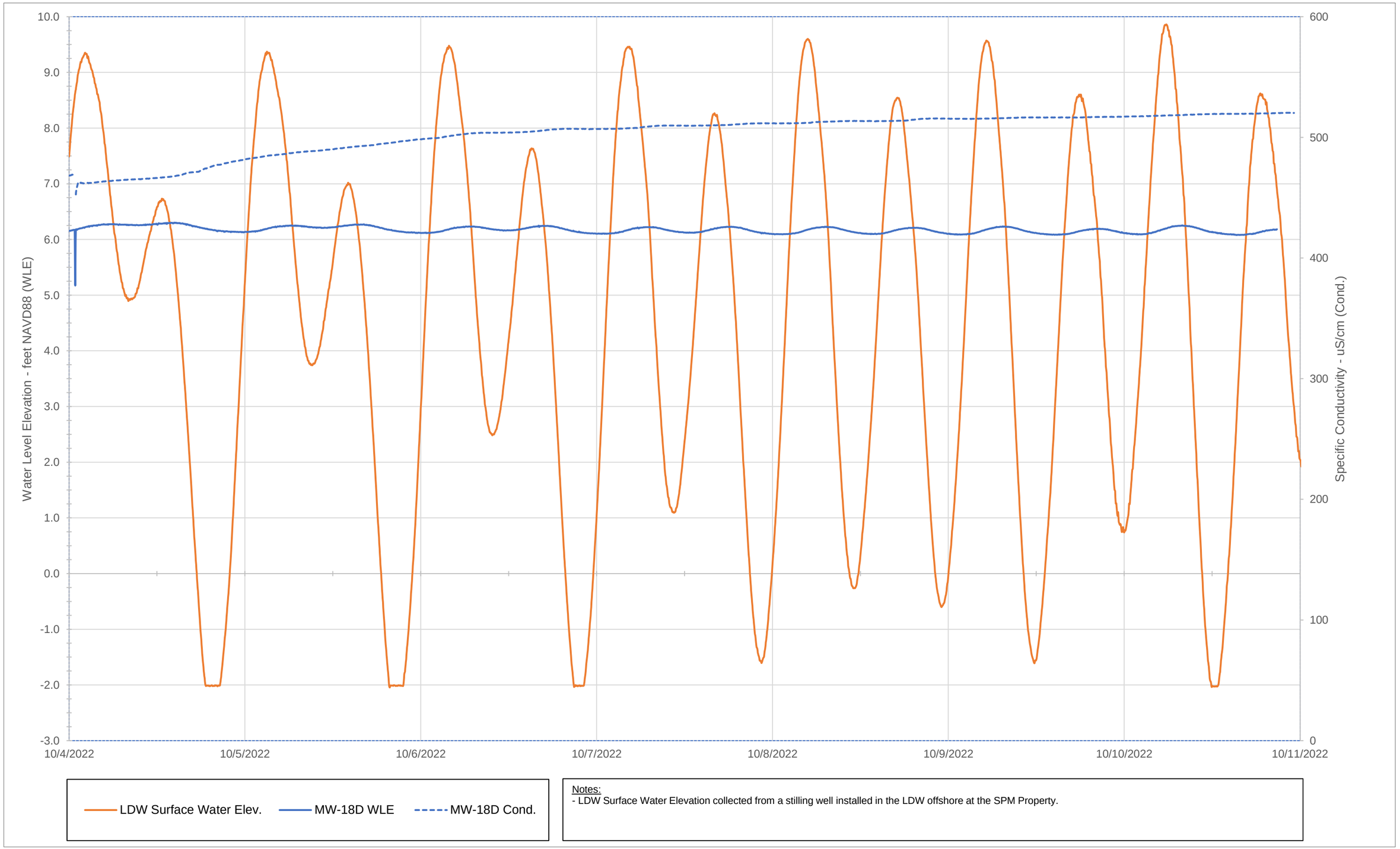
Figure C.4.N - Phase 2 Tidal Study - Water Level vs. Conductivity - MW-17
South Park Marina Site, Seattle, Washington



Notes:
- LDW Surface Water Elevation collected from a stilling well installed in the LDW offshore at the SPM Property.

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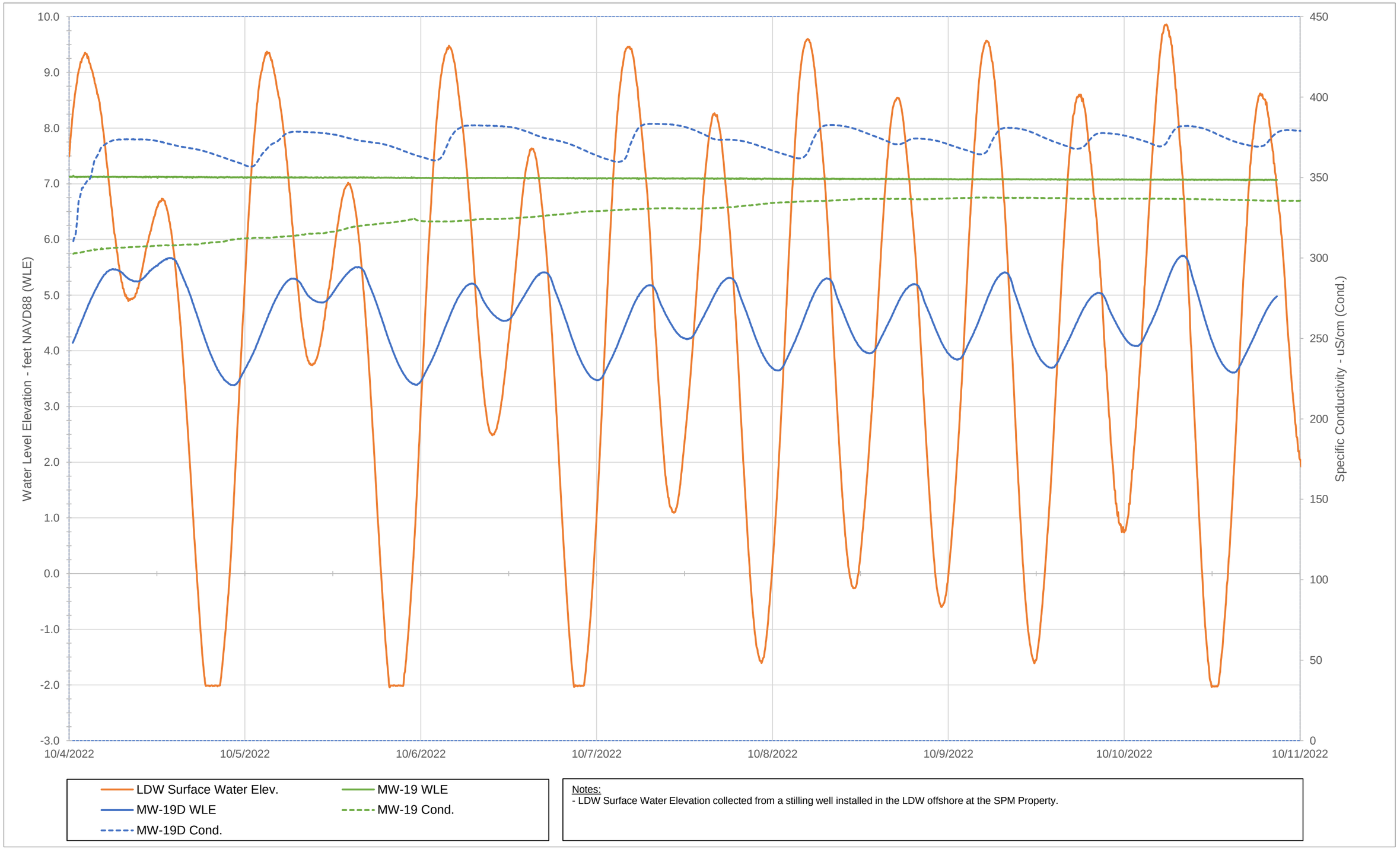
Figure C.4.O - Phase 2 Tidal Study - Water Level vs. Conductivity - MW-18D
South Park Marina Site, Seattle, Washington



Notes:
- LDW Surface Water Elevation collected from a stilling well installed in the LDW offshore at the SPM Property.

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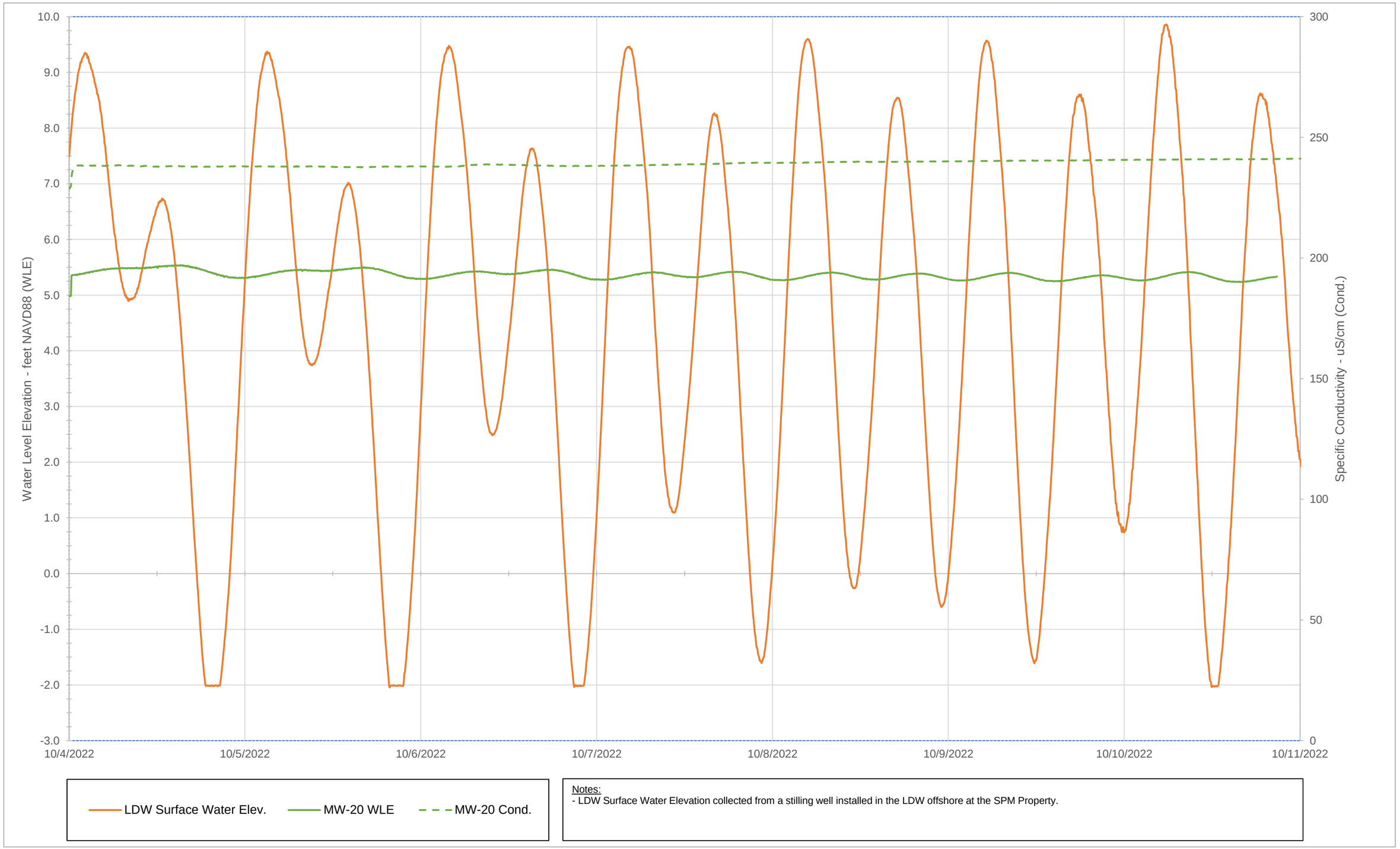
Figure C.4.P - Phase 2 Tidal Study - Water Level vs. Conductivity - MW-19/MW-19D
South Park Marina Site, Seattle, Washington



Notes:
- LDW Surface Water Elevation collected from a stilling well installed in the LDW offshore at the SPM Property.

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10/02/2024
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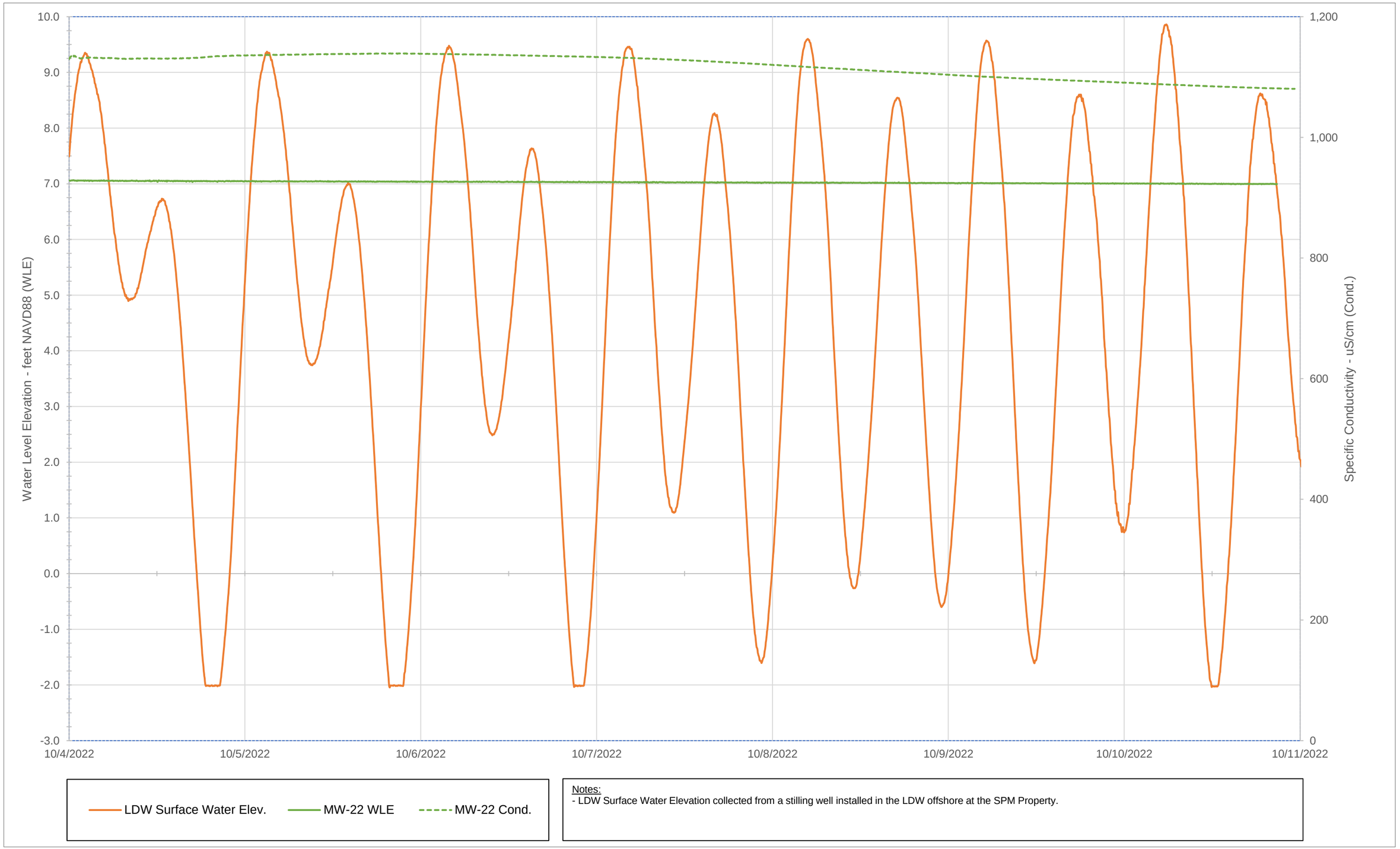
Figure C.4.Q - Phase 2 Tidal Study - Water Level vs. Conductivity - MW-20
South Park Marina Site, Seattle, Washington



Notes:
- LDW Surface Water Elevation collected from a stilling well installed in the LDW offshore at the SPM Property.

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10/02/2024
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Figure C.4.R - Phase 2 Tidal Study - Water Level vs. Conductivity - MW-22
South Park Marina Site, Seattle, Washington



Notes:
- LDW Surface Water Elevation collected from a stilling well installed in the LDW offshore at the SPM Property.

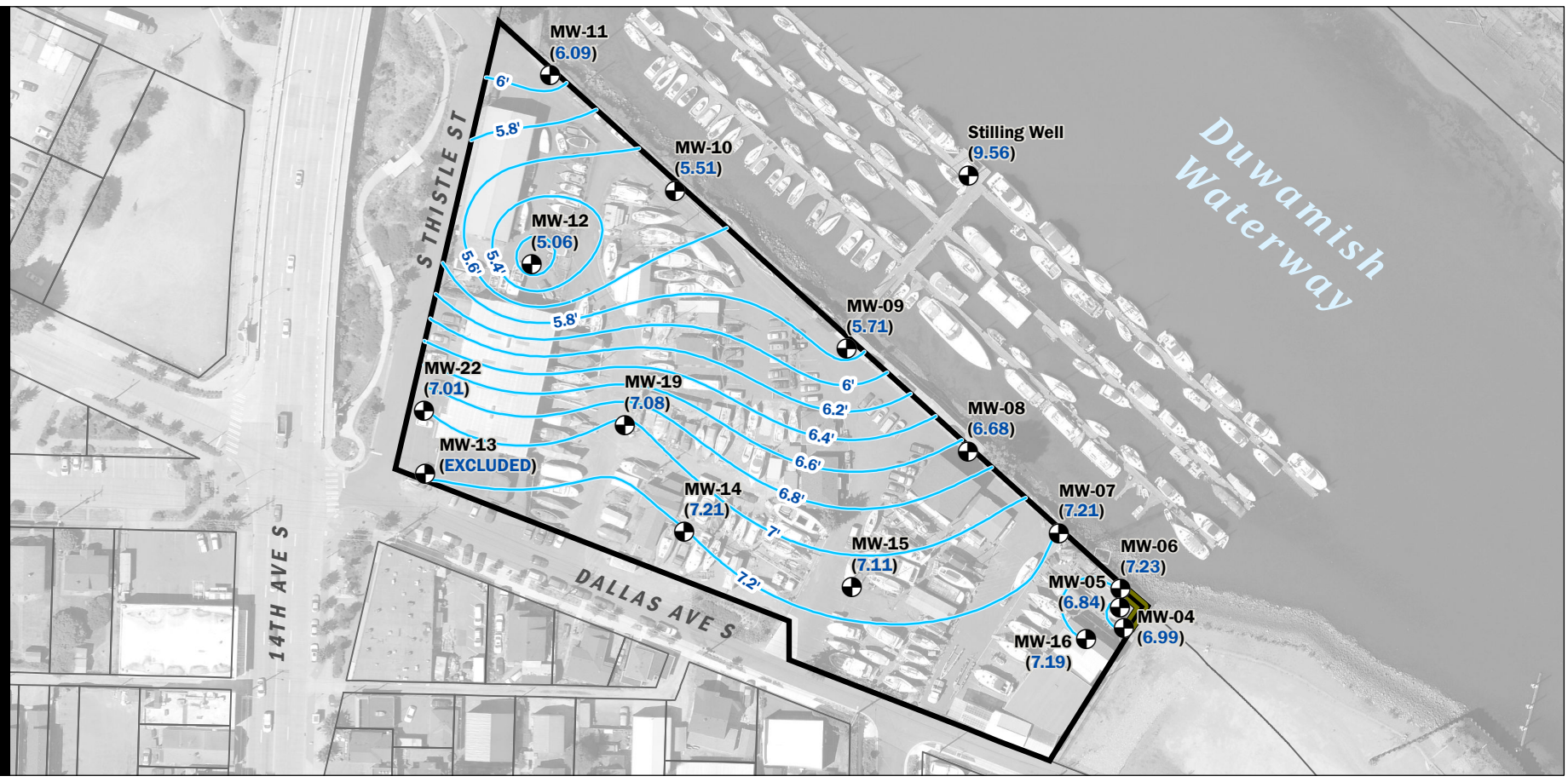
Aspect Consulting
10/02/2024
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APPENDIX C.5

Groundwater Elevation Contour Maps – High, Outgoing, Low Tide – Fill and Alluvium Units

HIGH TIDE

OCTOBER 9, 2022 AT 17:15

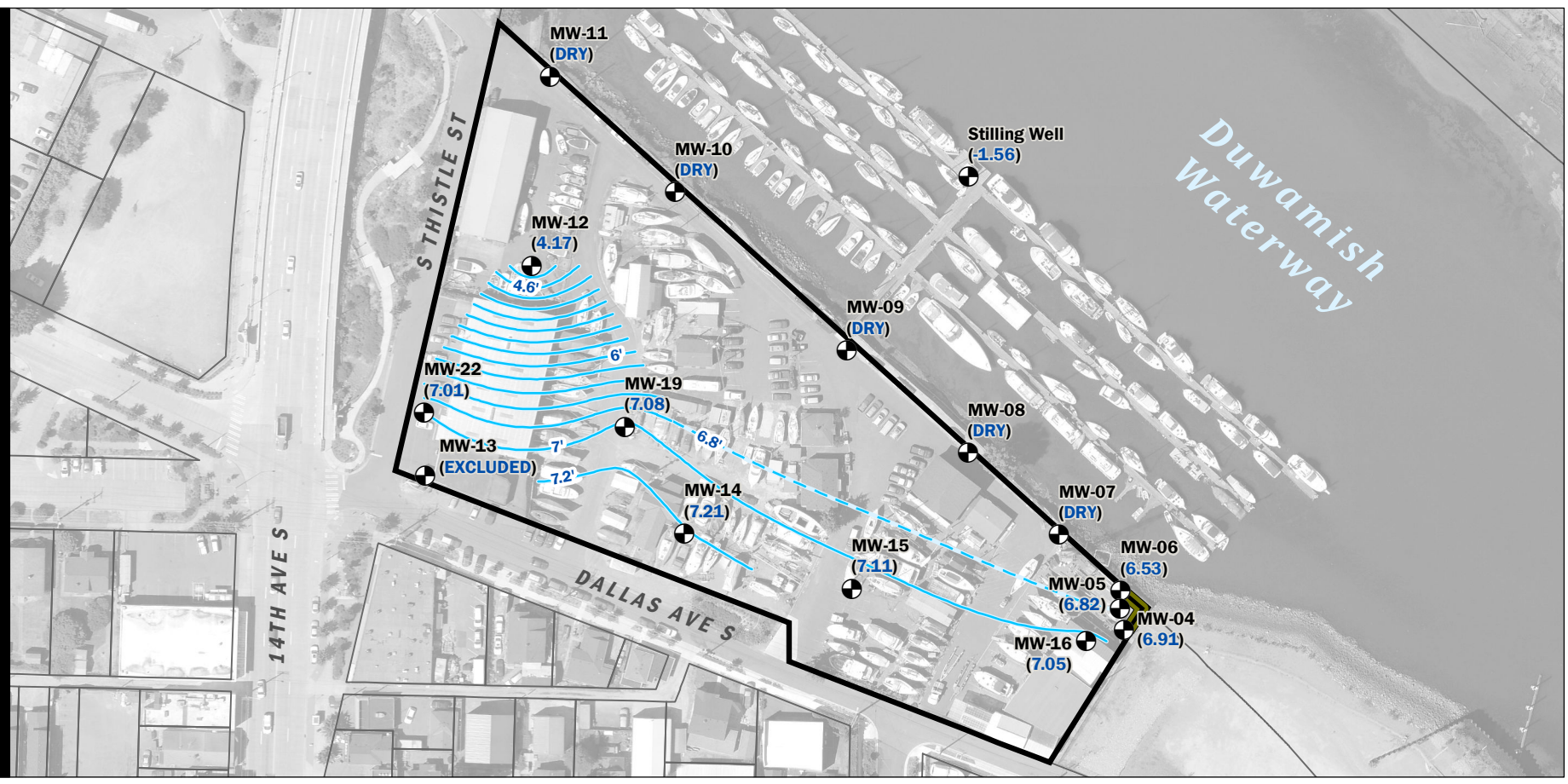


OUTGOING TIDE

OCTOBER 9, 2022 AT 20:35

LOW TIDE

OCTOBER 9, 2022 AT 23:55



Monitoring Well

Groundwater Elevation Contour Line (NAVD88; dashed where inferred)

SPM Property Boundary

Sheet Pile Wall

Notes:
- DRY: Monitoring well was dry during this time and excluded from analysis
- EXCLUDED: Monitoring well screen interval not appropriate for comparison to other Fill Unit monitoring wells
- Site features are approximate.

MW-05 (*6.84'*) ← Monitoring Well ID

Groundwater or Surface Water Elevation (NAVD88, ft)

N

True North

Project North

0 135

Feet

Fill Unit Groundwater Elevations - Tidal Stages

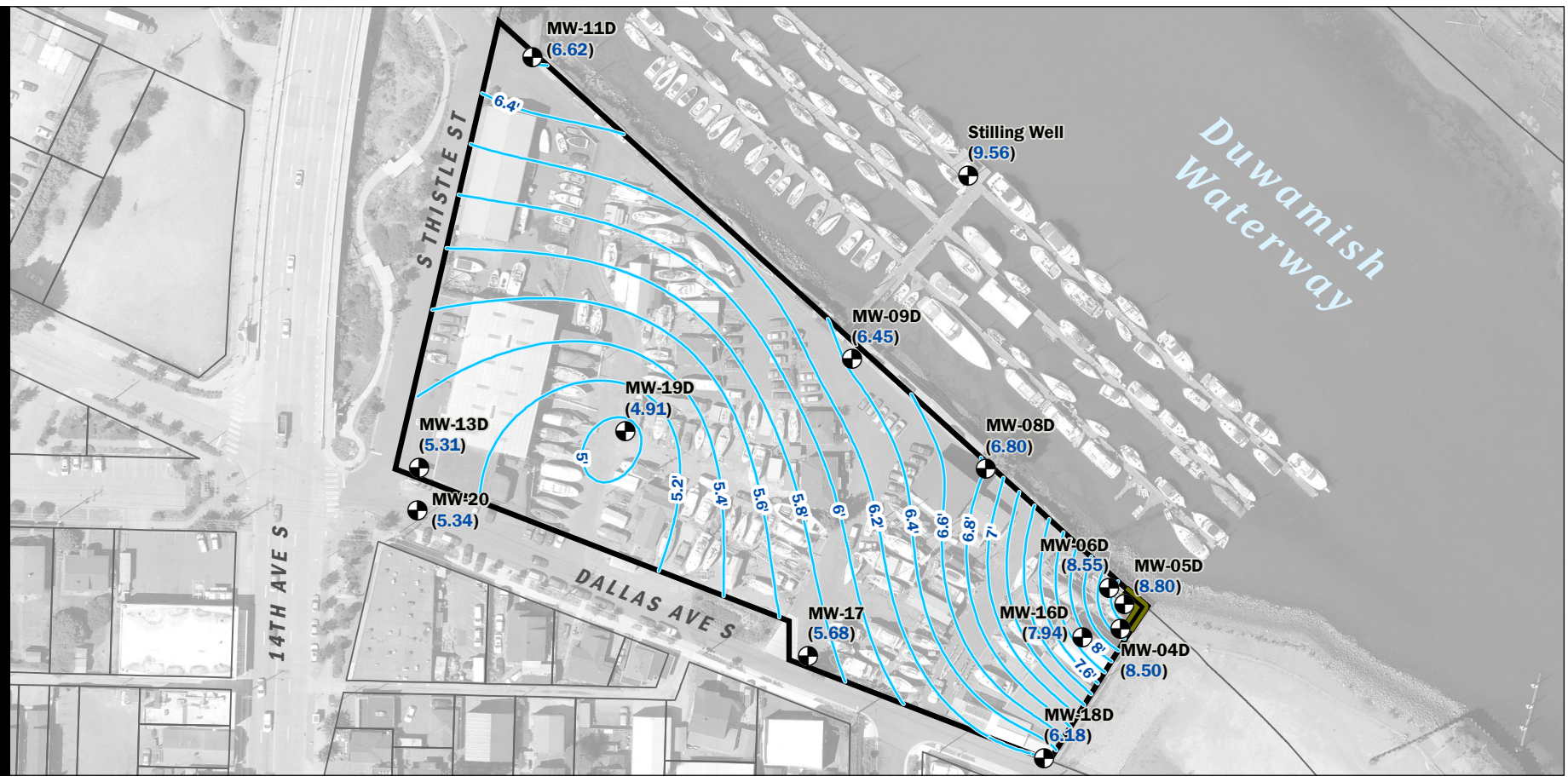
Remedial Investigation Report
South Park Marina
8604 Dallas Avenue South
Seattle, WA

Aspect Consulting	AUG-2024	BY: AJY / NLK	FIGURE NO. C.5.A
	PROJECT NO. 190293	REVISED BY: ---	

GIS Path: G:\projects\SouthParkMarina_190293\Delivered\Remedial Investigation Report\C5A Fill Groundwater Elevations.mxd || Coordinate System: NAD 1983 StatePlane Washington North FIPS 4601 Feet || Date Saved: 8/22/2024 || User: Nora.Kochie || Print Date: 8/22/2024

HIGH TIDE

OCTOBER 9, 2022 AT 17:15



OUTGOING TIDE

OCTOBER 9, 2022 AT 20:35

LOW TIDE

OCTOBER 9, 2022 AT 23:55



Monitoring Well

Groundwater Elevation Contour Line (NAVD88)

SPM Property Boundary

Sheet Pile Wall

Note: - Site features are approximate.

MW-05D (9.80') ← Monitoring Well ID

Groundwater or Surface Water Elevation (NAVD88, ft)

N

True North

Project North

0 135

Feet

Alluvial Unit Groundwater Elevations - Tidal Stages

Remedial Investigation Report
South Park Marina
8604 Dallas Avenue South
Seattle, WA

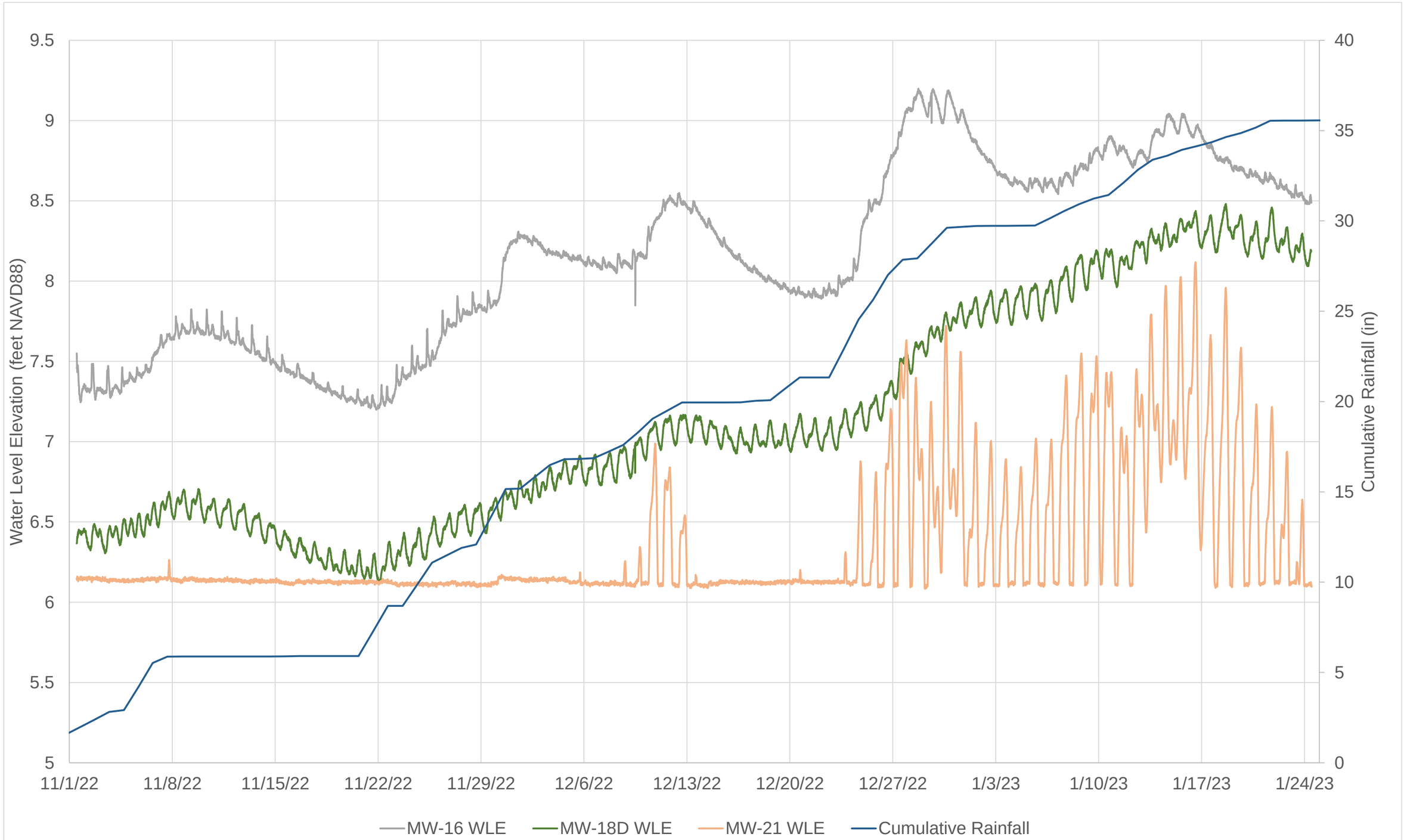
Aspect Consulting	AUG-2024	BY: AJY / NLK	FIGURE NO. C.5.B
	PROJECT NO. 190293	REVISED BY: ---	

GIS Path: G:\projects\SouthParkMarina_190293\Delivered\Remedial Investigation Report\C5B Alluvial Groundwater Elevations.mxd || Coordinate System: NAD 1983 StatePlane Washington North FIPS 4601 Feet || Date Saved: 8/23/2024 || User: Nora.Kochie || Print Date: 8/23/2024

APPENDIX C.6

Dry Well Datalogger Study – Hydrograph

Figure C.6 - Dry Well Datalogger Study - Hydrographs
South Park Marina Site, Seattle, Washington

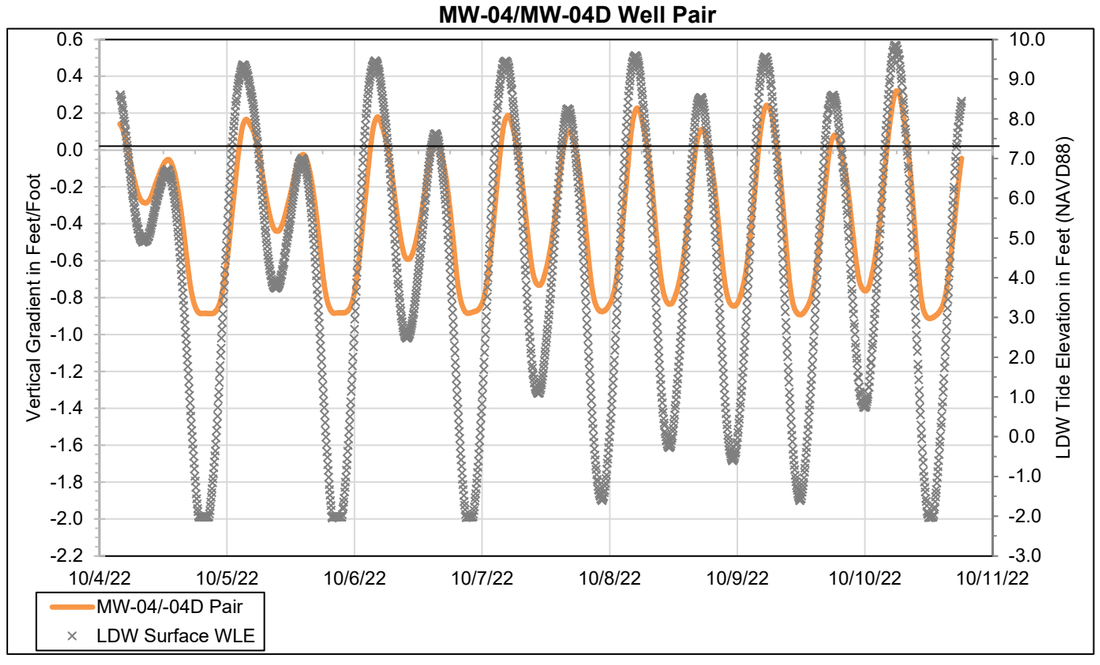


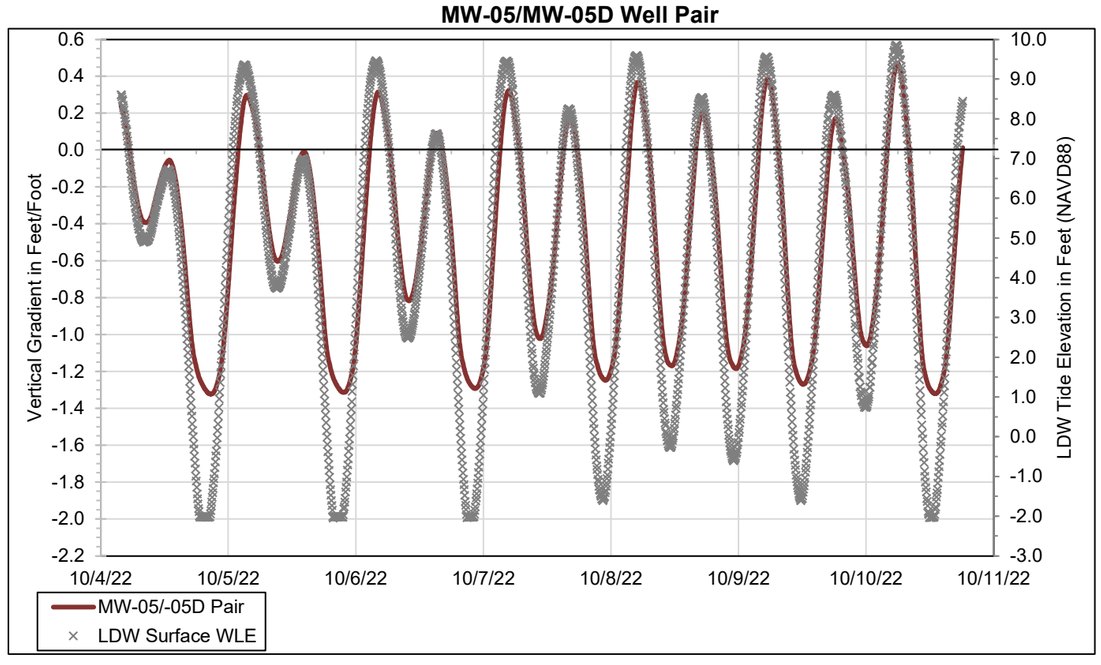
Aspect Consulting
10/02/2024
S:\Seattle City Light\South Park Marina RI\Data\Analyses\Tidal Study\Dry Well Diver Study\Dry Well Data and Precipitation graph

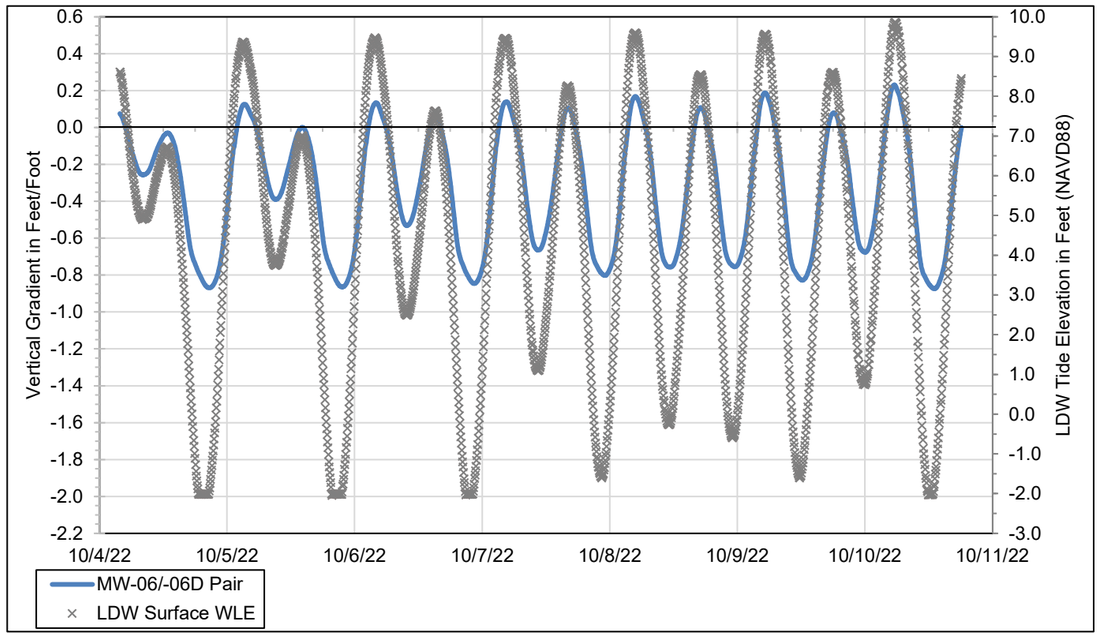
APPENDIX C.7

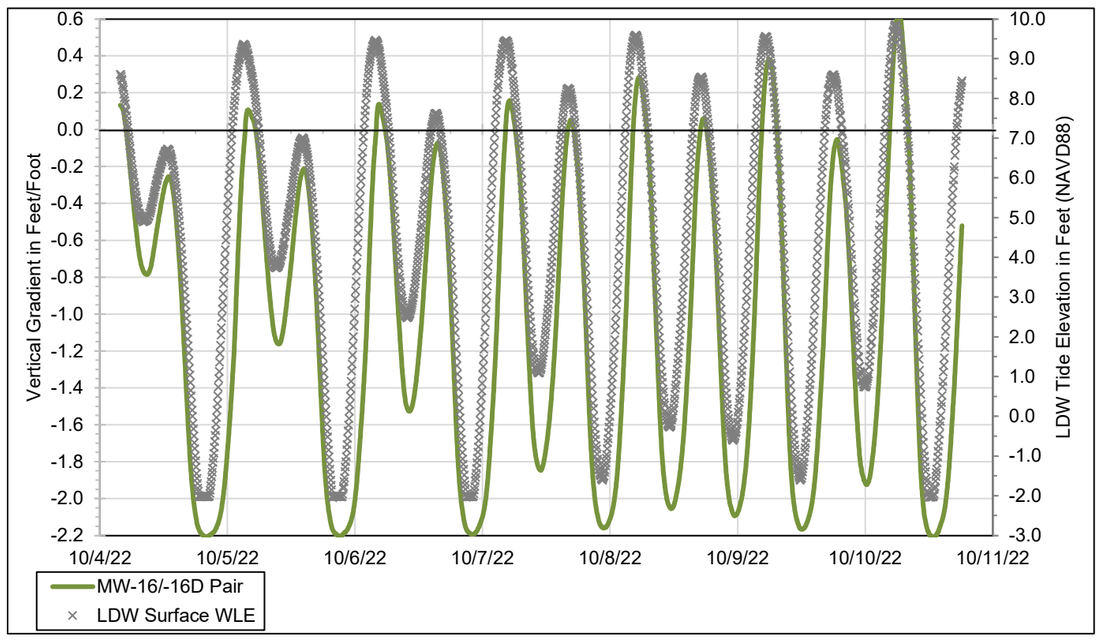
Vertical Gradients at Paired Fill/ Alluvial Unit Monitoring Wells

Figure C.7.A
Vertical Gradients Over Time at Fill-Alluvial Units Well Pairs - Pond Area Wells
South Park Marina Site, Seattle, Washington



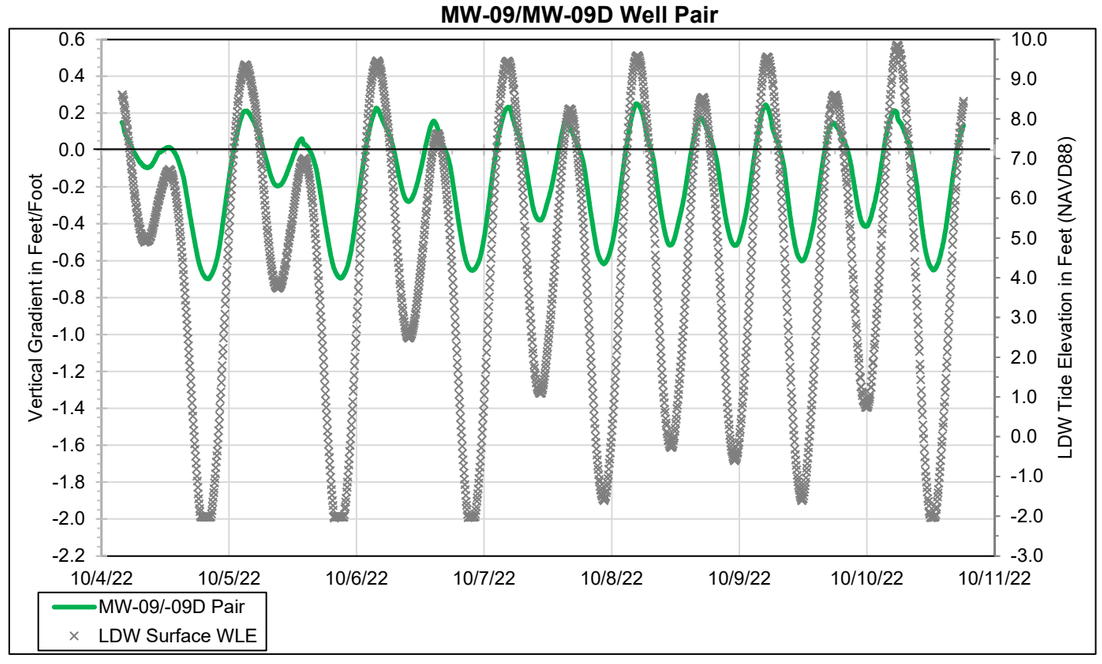


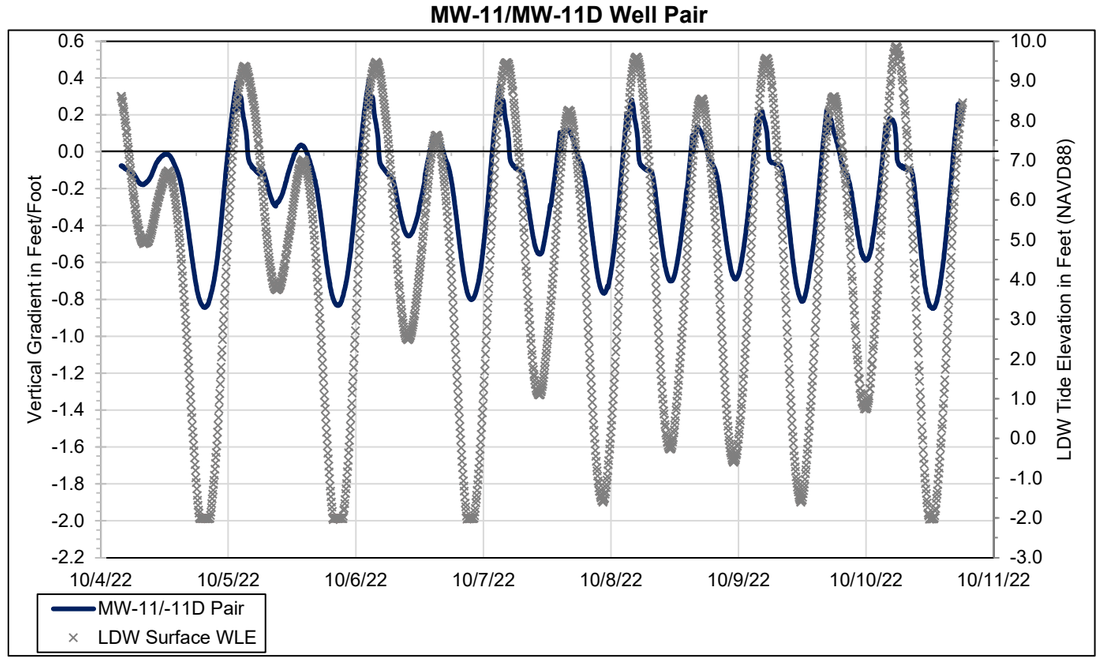


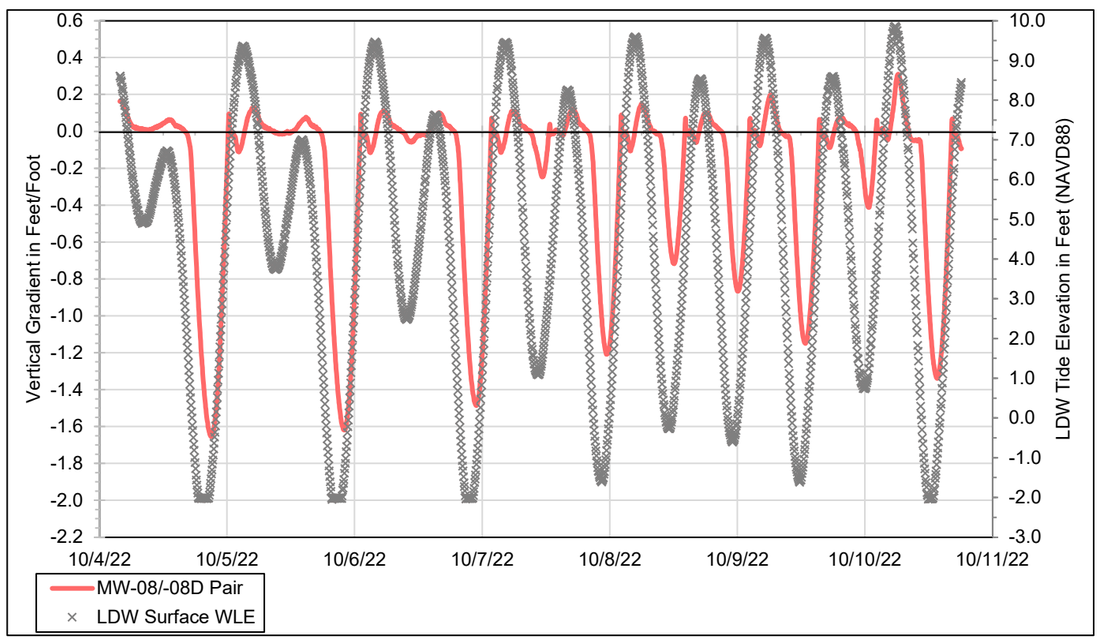


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Figure C.7.B
Vertical Gradients Over Time at Fill-Alluvial Units Well Pairs - Shoreline Wells
South Park Marina Site, Seattle, Washington

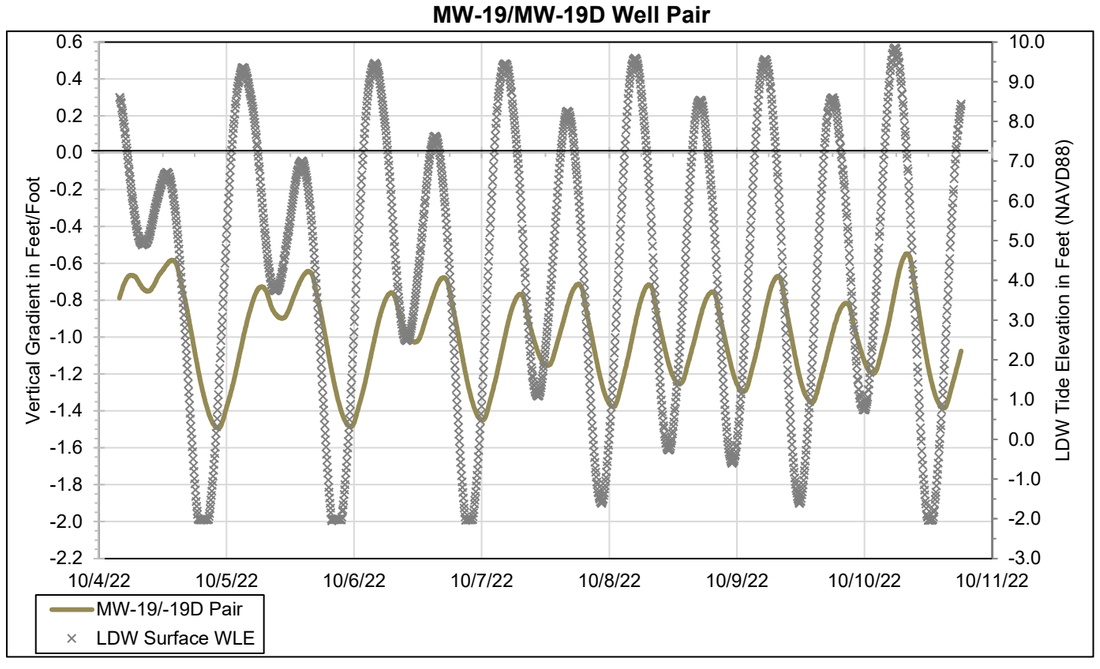


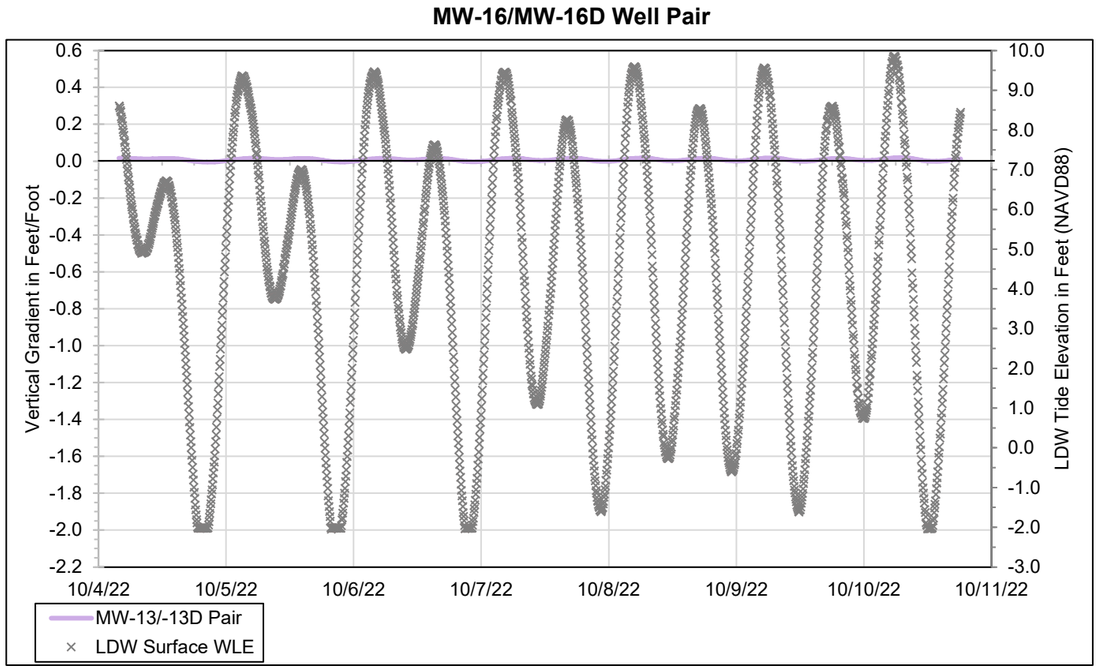




Aspect Consulting
4/9/2025
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Figure C.7.C
Vertical Gradients Over Time at Fill-Alluvial Units Well Pairs - Inland Wells
South Park Marina Site, Seattle, Washington





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APPENDIX C

TABLES

Table C.1. Groundwater Elevations During the RI

South Park Marina Site, Seattle, Washington

						Groundwater Elevations (feet NAVD88)						
						Phase 1			Phase 2			Phase 3
Monitoring Well	Installation Date	Top of Well Casing Elevation (feet NAVD88)	Bottom of Well Casing Elevation (feet NAVD88)	Screen Interval (feet bgs)	Filter Pack Sand Interval (feet bgs)	Tidal Study 03/12/21 - 03/22/21	Site-Wide Sampling 03/29/21	Congener Sampling 05/27/21	Tidal Study 10/04/22 - 10/11/22	Site-Wide Sampling 10/24/22	Dry Well Study 11/01/22 - 01/24/23	Site-Wide Sampling 03/21/23
Fill Unit Monitoring Wells												
MW-04	3/4/2021	15.02	4.02	6-11	5-11	5.57 to 8.08	8.10	7.16	6.10 to 7.05	--	--	7.52
MW-05	3/5/2021	14.50	5.00	4.5-9.5	3.5-9.5	--	7.52	7.25	6.60 to 7.05	--	--	7.55
MW-06	3/5/2021	14.27	5.77	3.5-8.5	2.5-8.5	5.80 to 8.02	7.52	--	Dry to 7.76	Dry	--	7.23
MW-07	3/9/2021	15.20	6.20	4-9	3-9	Dry to 8.40	7.49	--	Dry to 7.64	Dry	--	7.62
MW-08	3/9/2021	14.95	2.95	7-12	6-12	Dry to 7.61	6.83	7.20	Dry to 7.56	7.53	--	3.41
MW-09	3/9/2021	14.24	4.74	4.5-9.5	3.5-9.5	Dry to 6.24	5.82	--	Dry to 6.22	5.96	--	Dry
MW-10	3/8/2021	14.69	4.69	5-10	4-10	Dry to 6.96	6.63	--	Dry to 6.88	7.08	--	5.38
MW-11	3/8/2021	14.74	4.74	5-10	4-10	Dry to 8.02	6.81	--	Dry to 7.24	7.35	--	5.51
MW-12	3/3/2021	15.40	3.40	7-12	6-12	4.07 to 6.88	--	--	3.87 to 5.54	--	--	4.92
MW-14	3/2/2021	18.32	2.82	10.5-15.5	9.5-15.5	7.47 to 8.92	8.32	--	7.20 to 7.27	8.02	--	8.37
MW-15	3/3/2021	16.57	3.57	8-13	7-13	--	7.88	7.49	7.09 to 7.24	7.62	--	7.97
MW-16	9/23/2022	16.04	5.54	5.5-10.5	3.5-10.5	--	--	--	Dry to 7.31	Dry	Dry to 9.20	7.86
MW-18	9/13/2022	19.63	7.63	7-12	6-12	--	--	--	Dry	Dry	Dry to 8.04	Dry
MW-19	9/16/2022	13.54	5.54	3-8	2-8	--	--	--	7.06 to 7.13	7.41	--	8.28
MW-21	9/14/2022	17.63	6.13	6.5-11.5	5.5-12	--	--	--	Dry	Dry	Dry to 8.11	Dry
MW-22	9/14/2022	17.40	5.90	6.5-11.5	5.5-11.5	--	--	--	6.99 to 7.06	7.54	--	8.38
Tidal Flat Unit Monitoring Wells												
MW-13	3/2/2021	18.36	3.36	10-15	9-15	4.86 to 7.33	6.26	5.63	4.91 to 5.28	5.66	--	6.30
Alluvial Unit Monitoring Wells												
MW-04D	9/22/2022	14.89	-6.11	16-21	14-22	--	--	--	1.00 to 9.09	9.41	--	3.07
MW-05D	9/22/2022	14.40	-4.60	14-19	13-21	--	--	--	0.39 to 9.15	9.48	--	2.90
MW-06D	9/21/2022	14.63	-5.37	15-20	13-21	--	--	--	0.19 to 9.06	9.29	--	2.69
MW-08D	9/15/2022	14.67	-5.33	15-20	9-20	--	--	--	0.76 to 7.98	7.99	--	3.11
MW-09D	9/15/2022	14.29	-5.71	15-20	10-20	--	--	--	1.00 to 6.89	6.34	--	3.39
MW-11D	9/15/2022	15.03	-7.97	18-23	12-25	--	--	--	0.77 to 6.92	7.82	--	3.63
MW-13D	9/23/2022	18.49	-15.51	29-34	27-34	--	--	--	4.94 to 5.53	5.27	--	5.84
MW-16D	9/23/2022	15.86	-4.14	15-20	13-21	--	--	--	1.52 to 8.71	9.16	--	3.28
MW-18D	9/12/2022	19.88	-0.12	15-20	14-21	--	--	--	6.08 to 6.30	6.62	6.11 to 8.48	6.08
MW-19D	9/16/2022	13.61	-3.89	12.5-17.5	11.5-19	--	--	--	3.38 to 5.71	5.47	--	4.80
MW-17	9/16/2022	18.97	1.47	12.5-17.5	10.5-18.5	--	--	--	5.65 to 5.82	5.90	--	7.25
MW-20	9/14/2022	18.43	1.93	11.5-16.5	10-18	--	--	--	5.24 to 5.54	5.78	--	6.78

Notes

NAVD88 = North American Vertical Datum of 1988
feet bgs = feet below ground surface
-- = Not measured during that event

Table C.2. Manual LNAPL Measurements at MW-04 and MW-05

South Park Marina Site, Seattle, Washington

Monitoring Well	TOC Elevation (ft NAVD88)	Date	Depth to LNAPL (DTLNAPL; ft bTOC)	Depth to Water (DTW; ft bTOC)	LNAPL Thickness (ft)	Potentiometric Surface Elevation (ft NAVD88)	Notes
MW-04	15.02	3/10/21	ND	7.53	--	7.49	No LNAPL was detected prior to well development on this day, but a heavy sheen developed on the purge water during development.
		3/29/21	ND	6.92	--	8.10	The interface probe indicated a sheen NAPL may be present, but did not produce a consistent, repeatable tone indicating only a very thin sheen was present.
		3/31/21	ND	7.70	--	7.32	
		5/27/21	ND	7.86	--	7.16	
		10/4/22	8.25	8.27	0.02	6.77	
		10/11/22	7.95	8.00	0.05	7.06	
		10/27/22	8.88	8.91	0.03	6.14	
		3/21/23	ND	7.50	--	7.52	
MW-05	14.50	3/10/21	ND	7.53	--	6.97	No LNAPL was detected prior to well development on this day, but a heavy sheen developed on the purge water during development.
		3/29/21	ND	6.98	--	7.52	
		3/31/21	ND	7.21	--	7.29	No LNAPL was detected prior to sampling, but a heavy sheen was noted in the bucket of purge water generated during low-flow sampling stabilization.
		5/27/21	ND	7.25	--	7.25	
		10/4/22	7.79	7.87	0.08	6.70	
		10/11/22	7.52	7.57	0.05	6.97	
		10/26/22	ND	7.67	--	6.83	
		3/21/23	6.93	6.95	0.02	7.57	
		3/23/23	6.80	6.81	0.01	7.70	

Notes:

TOC = top of casing
ft = feet
NAVD88 = North American Vertical Datum of 1988
LNAPL = light non-aqueous phase liquid
DTLNAPL = depth to LNAPL
DTW = depth to water
bTOC = below top of casing
ND = LNAPL not detected by the interface probe
When LNAPL is present, the potentiometric surface is calculated as: Potentiometric Surface Elevation = TOC Elevation - DTW + 0.85*(DTW-DTLNAPL)
There was insufficient product recovered to directly measure density, but based on the viscosity of the limited LNAPL that was recovered, a specific gravity of 0.85 was assumed to calculate the potentiometric surface.

Table C.3. Vertical Gradients Between Paired Wells

South Park Marina Site, Seattle, Washington

Monitoring Well	Hydrostratigraphic Unit	Tidally Averaged Groundwater Elevation (feet NAVD88)	Tidal Flat Unit Thickness Between Paired Wells (feet)	Vertical Gradient[(a)] (foot/foot)
MW-04	Fill	6.90	6.5	-0.38
MW-04D	Alluvial	4.40		
MW-05	Fill	6.81	4.75	-0.52
MW-05D	Alluvial	4.36		
MW-06	Fill	6.69	7.00	-0.35
MW-06D	Alluvial	4.27		
MW-08	Fill	4.61	1.5	-0.21
MW-08D	Alluvial	4.30		
MW-09	Fill	5.48	5.75	-0.21
MW-09D	Alluvial	4.25		
MW-11	Fill	5.46	4.75	-0.22
MW-11D	Alluvial	4.41		
MW-13	Fill	5.02	17.5	0.01
MW-13D	Alluvial	5.18		
MW-16	Fill	7.08	2.5	-1.08
MW-16D	Alluvial	4.37		
MW-19	Fill	7.08	2.5	-1.02
MW-19D	Alluvial	4.53		

Notes

NAVD88 = North American Vertical Datum of 1988

(a) - Downward vertical gradients are negative, and upward vertical gradients are positive.

APPENDIX D

Cultural Resources Monitoring Reports

CULTURAL RESOURCES REPORT COVER SHEET

DAHP Project Number: 2020-07-04562

Author: Kunas, Julia and Paula Johnson

Title of Report: South Park Marina Remedial Investigation Phase I Archaeological Montioring Results

Date of Report: June 9, 2021

County(ies): King Section: 32 Township: 24 N Range: 4E

Quad: Seattle South Acres: ~3.7

PDF of report submitted (REQUIRED) ☒ Yes

Historic Property Inventory Forms to be Approved Online? ☐ Yes ☒ No

Archaeological Site(s)/Isolate(s) Found or Amended? ☐ Yes ☒ No

TCP(s) found? ☐ Yes ☒ No

Replace a draft? ☐ Yes ☒ No

Satisfy a DAHP Archaeological Excavation Permit requirement? ☐ Yes # ☒ No

Were Human Remains Found? ☐ Yes DAHP Case # ☒ No

DAHP Archaeological Site #:

_____
_____
_____
_____
_____
_____
_____
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_____

- Submission of PDFs is required.
- Please be sure that any PDF submitted to DAHP has its cover sheet, figures, graphics, appendices, attachments, correspondence, etc., compiled into one single PDF file.
- Please check that the PDF displays correctly when opened.

WILLAMETTE
CULTURAL RESOURCES ASSOCIATES, LTD.

TECHNICAL MEMORANDUM

To: Amber Earley, Seattle City Light

From: Julia Kunas, MS and Paula Johnson, MA, RPA

Date: June 9, 2021

RE: South Park Marina Remedial Investigation Phase I Archaeological Monitoring Results

Introduction

Willamette Cultural Resources Associates, Ltd. (WillametteCRA) conducted archaeological monitoring for Phase I of the South Park Marina Remedial Investigation in March 2021. Phase I is an investigatory phase of work which included advancing borings, monitoring wells, and hand augers on the property. The borings reached 20 to 30 feet below ground surface with a diameter of 2-8 inches, depending on equipment. This technical memorandum summarizes the results of the Phase I archeological monitoring and extends recommendations for the monitoring approach to be utilized in future phases of the project. The Project Area is South Park Marina, 8604 Dallas Avenue South, Seattle, WA (King County parcels #0001600001, 2185600025, and 2185600070) (Figure 1).

Regulatory Setting

The City of Seattle (City), the Port of Seattle (Port), and the South Park Marina (SPM) are the potential liable persons (PLPs) on the Department of Ecology Model Toxics Control Act (MTCA) Agreed Order No. DE-16185 for the investigation of the South Park Marina adjacent to the Duwamish Waterway. The Remedial Investigation (RI) will be performed over two phases of field work confined to the Site Area shown on Figure 2. The cleanup project is funded by the PLPs.

Because the City and the Port have applied for a Remedial Action Grant from the Washington State Department of Ecology (Ecology), the project is subject to Governor's Executive Order 05-05. Ecology is taking the lead on consultation with the Department of Archaeology and Historic Preservation (DAHP) and affected Tribes.

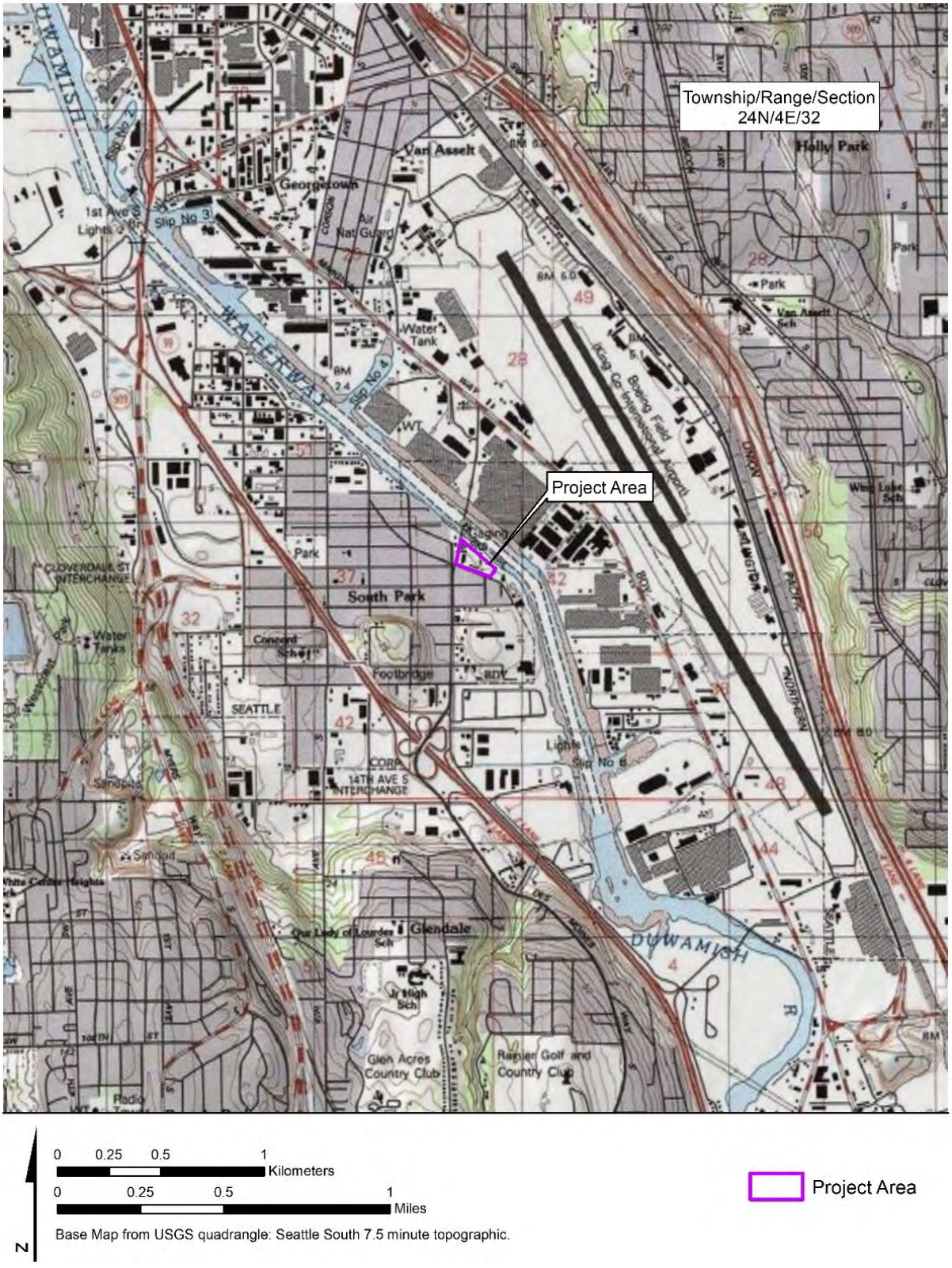


Figure 1. Map of project and surrounding areas.



Figure 2. Aerial photograph of project area.

A Monitoring and Inadvertent Discovery Plan (MIDP) was prepared for Phase I activities (Johnson 2021). The MIDP defined procedures to ensure compliance with Washington state laws, including the Archaeological Sites and Resources (RCW 27.53), Indian Graves and Records (RCW 27.44), Human Remains (RCW 68.50), and Abandoned and Historic Cemeteries and Historic Graves (RCW 68.60).

Project Location and Description

The property is on the western shore of the Lower Duwamish Waterway just south of the Seattle city limits in unincorporated King County. The upland portion of the property is currently in use as a Marina, a marine maintenance and repair shop, boat storage and repair, and residences. Borings previously advanced on the property indicate that the surface is comprised of fill material that ranges in thickness from 5 to 16 feet across the site. The project area is considered sensitive for precontact archaeological resources (Schultze et al. 2013). The project area is also known to have four previous buildings including a barrel shop, radiator repair shop, and auto repair and gasoline station; these were all removed by 1972 (Ecology 2019). Much of the project area is part of a former oxbow of the Duwamish River.

The project area is along the Duwamish Waterway, which is the modified channel of the Duwamish River (Figure 3). Native river sediments have been covered with dredge spoils and fill from straightening and deepening the river that began in 1909 (Burke Museum of Natural History and Culture 2009). The straightening of the Duwamish River brought the waterway directly adjacent to the project area, indicating a high level of disturbance during the rerouting of the river. Soils throughout the project are mapped as Urban land, 0 to 5 percent slopes (NRCS 2021). The surface geology of the project unit has been mapped as Quaternary alluvium (Qa), which consists of unconsolidated to semi-consolidated alluvial deposits (WA DNR 2021). According to historic aerial photography, the project area was a grassy field with a few structures until some time after 1940. By 1964, the riverbank was cleared, and the docks and other marina structures had been put in place (NETR 2021).



Figure 3. 1926 map of the approximate project area with both the Duwamish Waterway and original river alignment (Kroll Map Company 1926).

Cultural Expectations

Prior to ground disturbing activities associated with the project, WillametteCRA reviewed archaeological and site inventory records using the Washington Information System for Architectural and Archaeological Records (WISAARD) maintained by the DAHP. Although no archaeological sites have been recorded within the Project boundary, the state's Predictive

Model classifies the Project Area as having a very high potential to encounter precontact cultural resources. Additionally, precontact archaeological sites have been identified in close vicinity to the project area. Based on the depths and thicknesses of the shell midden sites found nearby (Table 1), any similar cultural resources within this project would be expected to be approximately 20 and 190 centimeters (cm) below ground surface (bgs) (0.65 to 6.25 feet (ft) bgs) and would range between 35 and 195 cm (1.15 to 6.40 ft) thick.

Table 1. Summary of Data on Nearby Cultural Deposits

Site No.	Amount of Fill Observed	Depth of Cultural Deposits	Thickness of Cultural Deposits	Cultural Material
45KI815	1 meter (3.3 feet)	50-240 cm bgs (1.65-7.9 ft bgs) **Absolute elevation: 3.0 to 3.8 m amsl[1]**	22 cm (~8 inches)	Charcoal, shell, fire modified rock, animal bone (mammal, bird, fish), modified bone and antler, lithics and lithic tool. Radiocarbon dated to 200 to 300 years before present (BP)[2]
45KI816	0.6 meter (~2 feet)	24-195 cm bgs (0.8-6.4 ft bgs)	12-30 cm (3-12 inches)	Shell, charcoal, animal bone, hearth feature.
45KI817	0.4 meter (~1.3 feet)	190-225 cm bgs (6.25-7.4 ft bgs)	35 cm (~14 inches)	Burned, calcined bone, burned wood directly above dark gray lacustrine clay sediment.

Sources: Blukis Onat 2007a, 2007b, 2007c; Demuth et al. 2008; Schultze et al. 2013, 2014
[1] above mean sea level
[2] "Before present" here refers to 1950, which is the standard reporting year for radiocarbon dated sites because it is when radiocarbon dating was developed.

In addition to the precontact sites described above, the historic 14th Avenue S. Road Remnant was located between Dallas Avenue S. and the south bank of the Duwamish Waterway in the vicinity of the project (HRA 2004). Built in 1914, it was one of the last remaining unpaved brick roads in King County and was the original approach to the first South Park Bridge that opened in 1915 (Perrine 2002). The road was recommended eligible for listing in the National Register of Historic Places (NRHP). The brick road was removed during the South Park Bridge replacement, and its bricks were reused in sidewalks and crosswalks in the area around the new bridge (King County Road Services Division 2020).

Monitoring Methods

WillametteCRA staff followed monitoring protocols described in the MIDP (Johnson 2021). Monitoring documentation included recording observations of the environmental setting, field conditions, contacts, boring and sampling methods, and sediments encountered on standard forms. Digital photographs of the location and various stages of the Phase I effort were taken and recorded on photograph logs. Staff also used GPS to map the locations of monitored

subsurface sampling locations. All forms and photographs are submitted to the City on an SD card.

Results

Phase 1 environmental drilling was conducted from March 1 to March 9, 2021 by Holt Services, Inc. under the direction of Aspect Consulting using a Geoprobe 7800 direct push drill. Boreholes ranged from two to eight inches wide, depending on the amount of sample needed. Aspect Consulting geologists examined the soil cores, logged information, and collected soil samples as they were retrieved. Eleven monitoring wells (MW-4 through MW-15) and nine soil borings (SB-26 thorough SB-34) were drilled (Figure 4). Monitoring wells and soil borings used the same drilling and sampling techniques. On March 10 and 11, Aspect Consulting geologists returned to the site to complete two hand augers (HA-1 and HA-2) where mechanical boring was not possible. All environmental boring and hand augering was monitored by the WillametteCRA archaeological monitor Julia Kunas.

WillametteCRA reviewed Aspect Consulting boring logs to confirm WillametteCRA field descriptions of each observed boring. Full descriptions of monitored boreholes are included in Appendix A. In general, all boreholes contained several feet of fill at the surface, extending from 5 to 16 ft bgs. Historic debris was observed in several boreholes within the fill layer (Appendix A). Scraps of ferrous metal debris were found in SB-26 and SB-32, both between 0 to 1 ft bgs. MW-10 and MW-15 had brick debris present within the top 3 feet of fill material, and MW-15 exposed an intact brick pavement layer present immediately below the modern asphalt layer and associated brick debris from drilling activity from 0.5-1 fbs (Figure 5, Figure 6). The brick pavement was visible directly underneath the overlying asphalt and based on orientation appeared to be continuous within the 8” diameter of the monitoring well, likely part of a brick road (Figure 6). No stratification or historic surfaces were observed in association with the historic debris and the debris was not diagnostic.

Evidence of a non-anthropogenic potential buried surface were present in five probes (MW-4, MW-6, MW-15, SB-26, and SB-34). A buried surface is an organic-laden soil layer that indicates a location that had once been a stable ground surface, which has the potential to contain archaeological deposits. With the exception of SB-34, all of the boreholes with these organics were in the eastern half of the parcel and three were clustered in the northeastern corner of the project area. The organics appeared to be moderately decayed vegetation and were all present between 10 to 15 ft bgs (Figure 7), with the exception of some heavily decomposed organics in MW-04 at 19 ft bgs. Although the buried surface did not appear cultural, the buried surface may represent a portion of the landform from before the river was straightened. Glacial Till was observed in one borehole, at 22 ft bgs in MW-05 (Figure 8). Glacial Till is expected to be culturally sterile.



Figure 4. Locations of monitored boreholes.



Figure 5. Overview of MW-15 drilling. View southeast.



Figure 6. Brick pavement visible underneath asphalt in MW-15. View south.



Figure 7. Heavily deteriorated organics in MW-15 at 14.5-15 ft bgs.

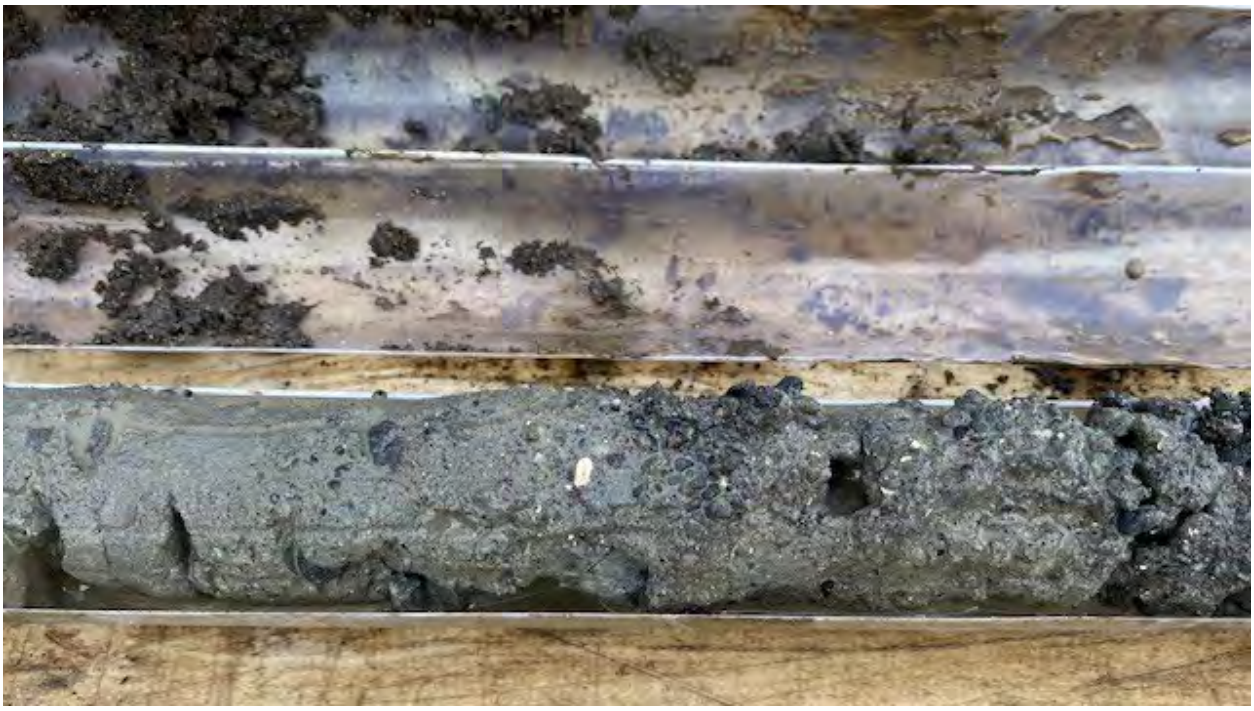


Figure 8. Non-cultural shell fragments in alluvial deposits. MW-05, 22 ft bgs.

Interpretation

Five to sixteen feet of historic fill is known to be present across the Project Area. The presence of diffuse, non-diagnostic historic debris within the fill is expected and likely represents the use of the property between the 1940s and 1970s by former businesses that were removed by the 1970s. Absent diagnostic artifacts, features such as foundations, or any stratification of deposits within the fill, none of the observed materials suggest a historic archaeological site.

Based on the presence of potential buried surfaces in several boreholes, it is possible that there are portions of the native landform that have the potential for precontact archaeological resources, although no precontact cultural resources were observed. Nearby precontact archaeological sites have dense, thick deposits containing shell, fishbone, and charcoal. Nothing like this was present in any boreholes. This suggests that either the landform was not utilized—or utilized less intensively—by the people who inhabited the nearby sites, or that if archaeological deposits were present, they were removed during the realignment of the Duwamish River or other historic land modifications.

Recommendations

Generally, WillametteCRA recommends archaeological monitoring of ground disturbing activity deeper than 5 ft bgs in the project area, which is the minimum depth of the fill deposits observed throughout the project. If historic cultural resources such as an extensive intact brick pavement surface or building foundations are encountered above 5 ft bgs, work should stop, and an archaeologist should be notified.

Additional monitoring and an addendum to the Phase I MIDP is recommended during any remedial activities that are conducted following the completion of the Remedial Investigation and any future Feasibility Study.

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Appendix A. Results of Borehole Monitoring

Bore No.	Sediment Depth (ft bgs)	Sediment Summary	Cultural Material	Burnt Organics/Buried Surface
HA-01	0-0.5	Brown gravelly sand fill	None observed	None observed
	0.5-3	Brown silty sand fill		
HA-02	0-3	Brown sandy silt fill	None observed	None observed
MW-04	0-10	Grey-brown gravelly sand to silty sand fill	None observed	
	10-14	Grey-brown silt to sand tidal flat deposits		Trace organics at 10.5'
	14-20	Grey-brown sand alluvium		Trace organics at 19'
MW-05	0-10	Grey-brown gravelly sand to silty sand fill	None observed	None observed
	10-11.5	Grey silt to sandy silt tidal flat deposits		
	11.5-22	Grey-brown sand alluvium		
	22-30	Grey gravelly sandy silt to silt glacial till		
MW-06	0-7	Brown to grey-brown gravelly sandy silt to sand fill	None observed	
	7-10.5	Dark grey to grey-brown silt to sandy silt tidal flat deposits		Trace organics at 9'9"
	10.5-20	Dark grey sand alluvium		
MW-07	0-8.5	Brown silty sand to sand fill	None observed	None observed
	8.5-10.5	Grey sandy silt tidal flat deposit		
	10.5-20	Black sand alluvium		
MW-08	0-10	Brown to grey-brown silty sand to sand fill	None observed	None observed
	10-20	Dark grey-brown sand alluvium		
MW-09	0-10	Brown to grey gravelly sand to sandy silt fill	None observed	None observed
	10-12.5	Grey to grey-brown silt to sandy silt tidal flat deposits		
	12.5-20	Grey-brown sand alluvium		
MW-10	0-12.5	Grey-brown silty sand fill	Brick fragments at 2.5'	None observed
	12.5-21	Grey to black silty sand tidal flat deposits		
	21-25	Black sand alluvium		

Bore No.	Sediment Depth (ft bgs)	Sediment Summary	Cultural Material	Burnt Organics/Buried Surface
MW-11	0-14	Brown silty sand to sand fill	None observed	None observed
	14-18	Grey sandy silt tidal flat deposits		
	18-20	Black sand alluvium		
MW-12	0-11.5	Grey-brown sandy silt to sand fill	None observed	None observed
	11.5-13	Grey silt tidal flat deposits		
	13-20	Grey-brown sand alluvium		
MW-13	0-12.5	Grey-brown sand to silty sand fill	None observed	None observed
	12.5-21.5	Grey sandy silt tidal flat deposits		
	21.5-25	Grey-brown sand alluvium		
MW-14	0-15.5	Grey-brown gravelly silty sand to sand fill	None observed	None observed
	15.5-19.5	Dark brown sandy silt tidal flat deposits		
	19.5-20	Dark grey sand alluvium		
MW-15	0-13.5	Grey-brown sand to silty sand fill	Brick paving layer directly under asphalt, brick debris from 0-0.5'	
	13.5-18.5	Grey silt tidal flat deposits		Deteriorated organics at 14.5-15'
	18.5-20	Black sand alluvium		
SB-26	0-9.5	Brown gravelly sand to silty sand fill	One piece of ferrous material at 0-1'	
	9.5-14	Grey silt to sand tidal flat deposits		Trace organic matter at 10' and trace organics at 13'
	14-20	Grey-brown sand alluvium		
SB-27	0-8	Grey-brown sandy silt to sand fill	None observed	None observed
	8-20	Black to brown sand alluvium		
SB-28	0-6.5	Brown sandy silt to sand fill	None observed	None observed
	6.5-7	Grey to red-brown sandy silt tidal flat deposits		
	7-20	Red-brown sand alluvium		
SB-29	0-7.5	Brown gravelly sand to silty sand fill	None observed	None observed
	7.5-20	Grey-brown sand alluvium		
SB-30	0-16	Brown gravelly sand to sand fill	None observed	None observed
	16-19.5	Grey-brown sandy silt tidal flat deposits		
	19.5-25	Black sand alluvium		

Bore No.	Sediment Depth (ft bgs)	Sediment Summary	Cultural Material	Burnt Organics/Buried Surface
SB-31	0-11	Brown gravelly sand to sand fill	None observed	None observed
	11-19	Dark grey sandy silt to silty sand tidal flat deposits		
	19-20	Black sand alluvium		
SB-32	0-7.5	Brown sand with silt fill	One piece of ferrous material found between 0-1'	None observed
	7.5-17	Greyish brown to grey sandy silt to silty sand tidal flat deposits		
	17-20	Black sand alluvium		
SB-33	0-5	Brown gravelly sand to sand fill	None observed	None observed
	5-6.5	Grey-brown silt to silty sand tidal flat deposits		
	6.5-20	Grey-brown to brown sand alluvium		
SB-34	0-11	Light brown sand fill	None observed	Peat deposit at 11', approximately 2" thick
	11-15	Dark grey sandy silt to silt tidal flat deposits		
	15-20	Black sand alluvium		

CULTURAL RESOURCES REPORT COVER SHEET

DAHP Project Number: 2020-07-04562

Author: Kunas, Julia, and Paula Johnson

Title of Report: South Park Marina Remedial Investigation Phase II Archaeological Monitoring Results

Date of Report: July 19, 2023

County(ies): King Section: 32 Township: 24 N Range: 4E

Quad: Seattle South Acres: ~3.7

PDF of report submitted (REQUIRED) ☒ Yes

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Satisfy a DAHP Archaeological Excavation Permit requirement? ☐ Yes # ☒ No

Were Human Remains Found? ☐ Yes DAHP Case # ☒ No

DAHP Archaeological Site #:

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- Submission of PDFs is required.
- Please be sure that any PDF submitted to DAHP has its cover sheet, figures, graphics, appendices, attachments, correspondence, etc., compiled into one single PDF file.
- Please check that the PDF displays correctly when opened.

WILLAMETTE
CULTURAL RESOURCES ASSOCIATES, LTD.

TECHNICAL MEMORANDUM

To: Amber Earley, Seattle City Light

From: Julia Kunas, MS and Paula Johnson, MA, RPA

Date: July 19, 2023

RE: South Park Marina Remedial Investigation Phase II Archaeological Monitoring Results

Introduction

Willamette Cultural Resources Associates, Ltd. (WillametteCRA) conducted archaeological monitoring for Phase II of the South Park Marina Remedial Investigation in September and October 2022. Phase I was an investigatory phase of work which included advancing borings, monitoring wells, shallow test pits, and hand augers on the property (Kunas and Johnson 2021). Phase II is a continuation of that investigatory work which included advancing borings, monitoring wells, shallow test pits, and hand augers in additional locations on the property. The borings reached 12 to 40 feet below ground surface with a diameter of 4–7 inches, depending on equipment. This technical memorandum summarizes the results of the Phase II archeological monitoring and extends recommendations for the monitoring approach to be utilized in future phases of the project. The Project Area is South Park Marina, 8604 Dallas Avenue South, Seattle, Washington (King County parcels #0001600001, 2185600025, and 2185600070; Figure 1).

Regulatory Setting

The City of Seattle (City), the Port of Seattle (Port), and the South Park Marina are the potential liable persons (PLPs) on the Department of Ecology Model Toxics Control Act (MTCA) Agreed Order No. DE-16185 for the investigation of the South Park Marina adjacent to the Duwamish Waterway. The Remedial Investigation (RI) will be performed over two phases of fieldwork confined to the Site Area shown on Figure 2. The cleanup project is funded by the PLPs.

Because the City and the Port have applied for a Remedial Action Grant from the Washington State Department of Ecology (Ecology), the project is subject to Governor's Executive Order 21-02 (Phase I was conducted under the earlier iteration of this, Executive Order 05-05). Ecology is taking the lead on consultation with the Department of Archaeology and Historic Preservation (DAHP) and affected Tribes. The work is being completed under FERC Reporting Code 18680.

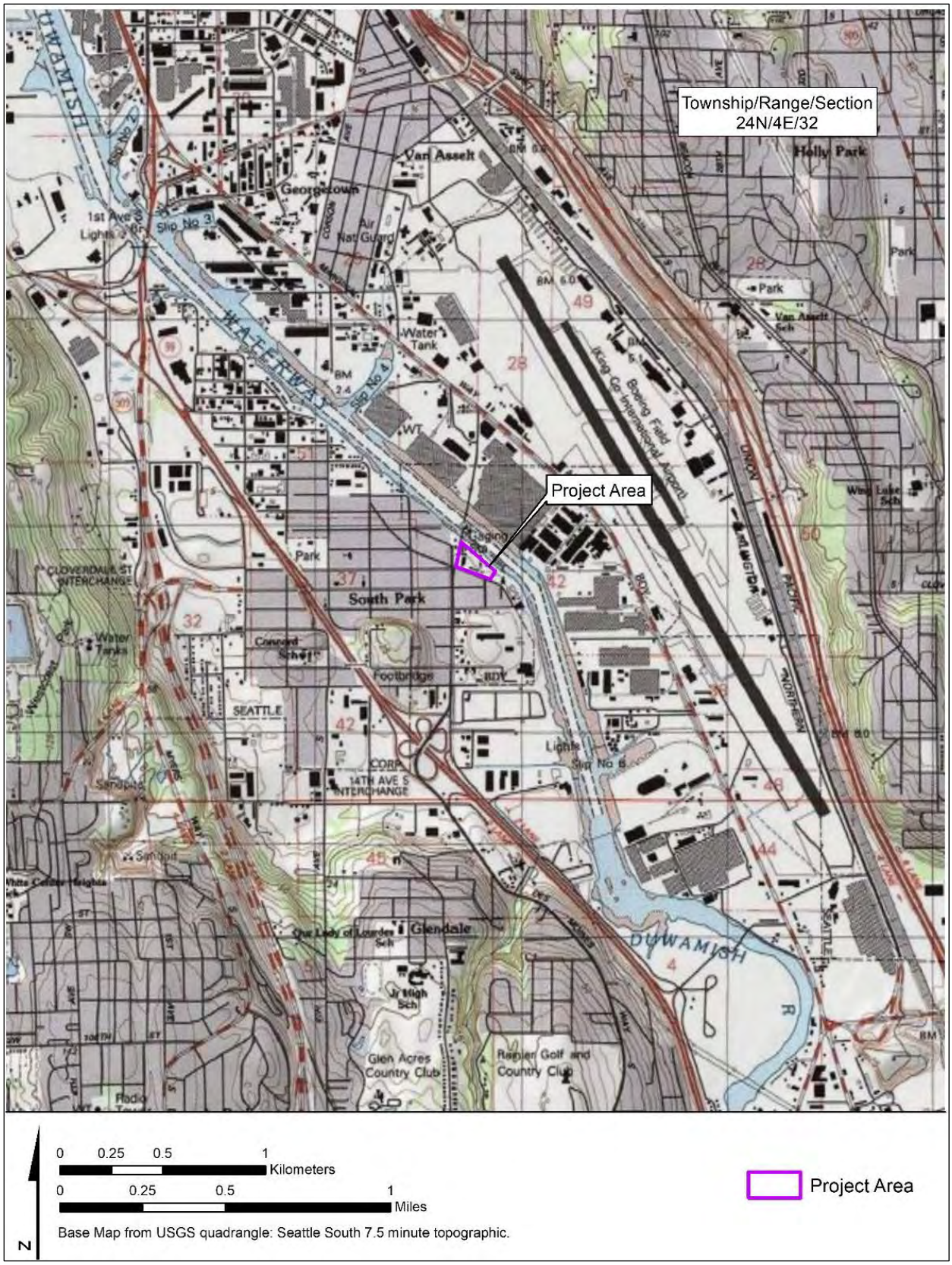


Figure 1. Location of Project Area and vicinity.



Figure 2. Aerial photograph of Project Area.

A Monitoring and Inadvertent Discovery Plan (MIDP) was prepared for Phase I activities (Johnson 2021). Following Phase I, an MIDP was developed for Phase II (WillametteCRA 2022). Both MIDPs defined procedures to ensure compliance with Washington state laws, including the Archaeological Sites and Resources (RCW 27.53), Indian Graves and Records (RCW 27.44), Human Remains (RCW 68.50), and Abandoned and Historic Cemeteries and Historic Graves (RCW 68.60).

Project Location and Description

The Project Area is on the western shore of the Lower Duwamish Waterway just south of the Seattle city limits in unincorporated King County (see Figures 1 and 2). The upland portion of the property is currently in use as a marina, a marine maintenance and repair shop, boat storage and repair, and residences. The Project Area is considered sensitive for precontact archaeological resources (Schultze et al. 2013). Monitoring for Phase I of the project indicated that there is 5 to 16 feet (ft.) of historic fill across the property and nondiagnostic historic debris, as well as a potential buried surface in some of the borings from approximately 10 to 15 ft. below ground surface (bgs; Kunas and Johnson 2021). The Project Area is also known to have

four previous buildings including a barrel shop, radiator repair shop, and auto repair and gasoline station; these were all removed by 1972 (Ecology 2019). Much of the Project Area is part of a former oxbow of the Duwamish River.

The Project Area is along the Duwamish Waterway, which is the modified channel of the Duwamish River (Figure 3). Native river sediments have been covered with dredge spoils and fill from straightening and deepening the river that began in 1909 (Burke Museum of Natural History and Culture 2009). The straightening of the Duwamish River brought the waterway directly adjacent to the Project Area, indicating a high level of disturbance during the rerouting of the river. Soils throughout the project are mapped as Urban land, 0 to 5 percent slopes (NRCS 2021). The surface geology of the project unit has been mapped as Quaternary alluvium (Qa), which consists of unconsolidated to semi-consolidated alluvial deposits (WA DNR 2021). According to historic aerial photography, the Project Area was a grassy field with a few structures until sometime after 1940. By 1964, the riverbank was cleared, and the docks and other marina structures had been put in place (NETR 2021).

Cultural Expectations

Prior to ground-disturbing activities associated with the project, WillametteCRA reviewed archaeological and site inventory records using the Washington Information System for Architectural and Archaeological Records (WISAARD) maintained by the DAHP. Although no archaeological sites have been recorded within the Project boundary, the state's Predictive Model classifies the Project Area as having a very high potential to encounter precontact cultural resources. Additionally, precontact archaeological sites have been identified in close vicinity to the Project Area. Based on the depths and thicknesses of the shell midden sites found nearby (Table 1), any similar cultural resources within this project would be expected to be approximately 20 and 190 centimeters (cm) bgs (0.65 to 6.25 ft. bgs) and would range between 35 and 195 cm (1.15 to 6.40 ft.) thick.

In addition to the precontact sites described above, the historic 14th Avenue S Road Remnant was located between Dallas Avenue S and the south bank of the Duwamish Waterway in the vicinity of the project (HRA 2004). Built in 1914, it was one of the last remaining unpaved brick roads in King County and was the original approach to the first South Park Bridge that opened in 1915 (Perrine 2002). The road was recommended eligible for listing in the National Register of Historic Places (NRHP). The brick road was removed during the South Park Bridge replacement, and its bricks were reused in sidewalks and crosswalks in the area around the new bridge (King County Road Services Division 2020).



Figure 3. 1926 map of the approximate Project Area with both the Duwamish Waterway and original river alignment (Kroll Map Company 1926).

Table 1. Summary of Data on Nearby Cultural Deposits

Site No.	Amount of Fill Observed	Depth of Cultural Deposits	Thickness of Cultural Deposits	Cultural Material
45KI815	1 meter (3.3 feet)	50–240 cm bgs (1.65–7.9 ft. bgs) **Absolute elevation[1]: 3.0 to 3.8 meters amsl[2]**	22 cm (~8 inches)	Charcoal, shell, fire-modified rock, animal bone (mammal, bird, fish), modified bone and antler, lithics and lithic tool. Radiocarbon dated to 200 to 300 years before present (BP)[3]
45KI816	0.6 meter (~2 ft.)	24–195 cm bgs (0.8–6.4 ft. bgs)	12–30 cm (3–12 inches)	Shell, charcoal, animal bone, hearth feature.
45KI817	0.4 meter (~1.3 ft.)	190–225 cm bgs (6.25–7.4 ft. bgs)	35 cm (~14 inches)	Burned, calcined bone, burned wood directly above dark gray lacustrine clay sediment.

Sources: Blukis Onat 2007a, 2007b, 2007c; Demuth et al. 2008; Schultze et al. 2013, 2014
1 because this site was excavated, there is absolute elevation data available
2 above mean sea level
3 "Before present" here refers to 1950, which is the standard reporting year for radiocarbon dated sites because it is when radiocarbon dating was developed.

Monitoring Methods

WillametteCRA staff followed monitoring protocols described in the MIDP for Phase II (WillametteCRA 2022). Monitoring documentation included recording observations of the environmental setting, field conditions, contacts, boring and sampling methods, and sediments encountered on standard forms. Digital photographs of the location and various stages of the Phase II effort were taken and recorded on photograph logs. Staff also used GPS to map the locations of monitored subsurface sampling locations. All forms and photographs are submitted to the City on an SD card.

Results

Phase II environmental drilling was conducted from September 12 to October 14, 2022, by Holt Services, Inc. under the direction of Aspect Consulting using a Geoprobe 7822 DT direct push drill and a Terra-Sonic sonic drill (Figures 4 and 5). The sonic drill was used in areas where dual casing was required to limit potential cross-contamination of deeper samples. Boreholes ranged from 4 to 7 inches wide, depending on the drill used. Aspect Consulting staff under the direction of a licensed geologist examined the soil cores, logged information, and collected soil samples as they were retrieved. Seventeen monitoring wells (MW-4D, 5D, 6D, 8D, 9D, 11D, 13D, 16, 16D, 17, 18, 18D, 19, 19D, 20, 21, and 22) and nine soil borings (SB-35 thorough SB-43) were drilled

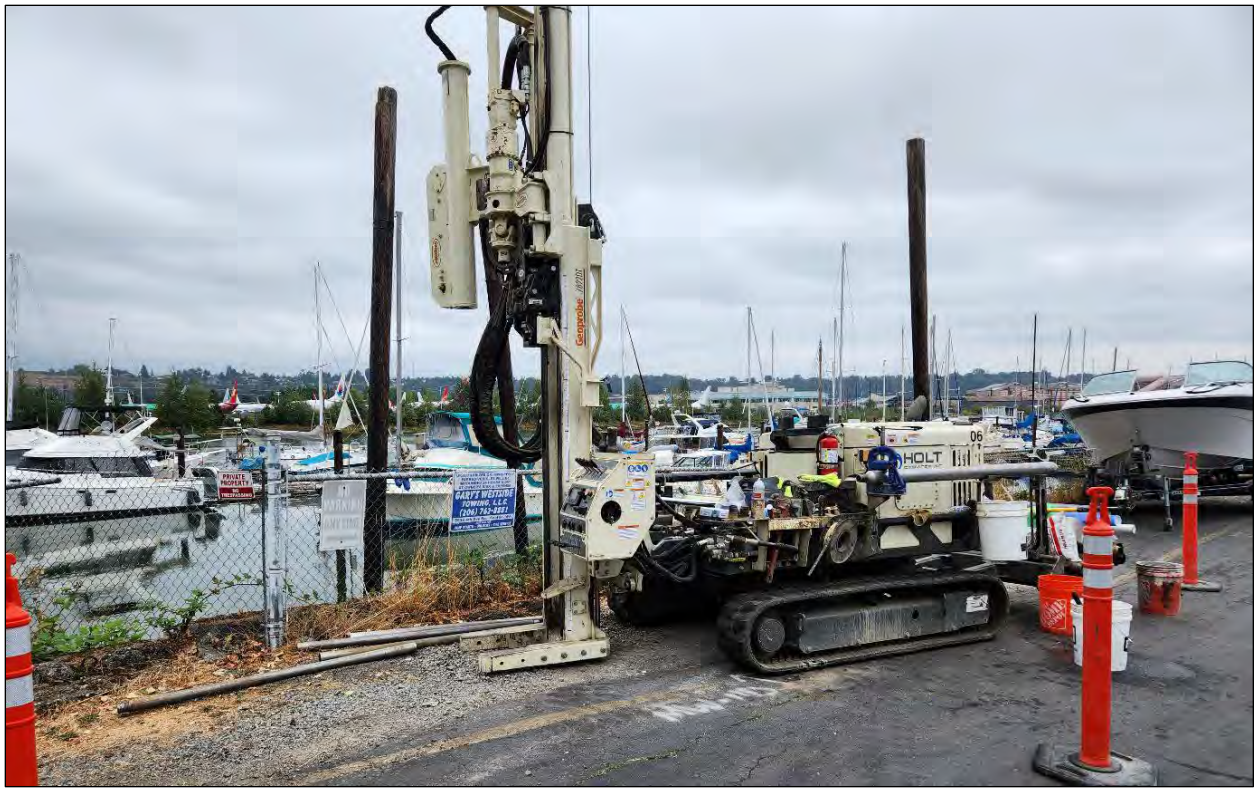


Figure 4. North overview of MW-11D using Geoprobe 7822DT.



Figure 5. Southeast overview of SB-42 using Terra-Sonic sonic drill.



Figure 6. Locations of Phase I and Phase II monitored boreholes.

(Figure 6). Monitoring wells and soil borings used the same drilling and sampling techniques. On September 20, Aspect Consulting staff under the direction of a licensed geologist completed five hand augers (HA-3 through HA-7) where shallower samples were collected. Aspect Consulting returned to the site on October 14 to redrill MW-13D, which was completed with the use of a drill auger instead of boring. The environmental boring and hand augering was monitored by WillametteCRA archaeological monitors Julia Kunas and Althea Fitzpow.

WillametteCRA reviewed Aspect Consulting boring logs to confirm WillametteCRA field descriptions of each observed boring. Full descriptions of monitored boreholes are included in Appendix A. In general, all boreholes contained several feet of fill at the surface, likely redeposited alluvium. In this phase of investigation this fill layer extended from 6 to 13 ft. bgs; during Phase I the fill layer was observed to be from 5 to 16 ft. bgs. Historic debris was observed in several boreholes within the fill layer (Figure 7, Appendix A). In some borings loose fill resulted in upper sediments sloughing into deeper samples; cultural debris was occasionally observed in this slough material but the original depth is unknown. MW-22 and SB-37 had brick debris present within the top 3 ft. of fill material, and nondiagnostic glass fragments were observed in MW-08D, MW-09D, MW-17, MW-22, SB-36, SB-37, and SB-38 at 0 to 5 ft. bgs. Wood debris was also found in the fill in several borings. In SB-42 plastic sheeting was observed at 4 ft. bgs below wood debris present at 2.5 ft. bgs. This fill level typically overlaid a tidal flat deposit, over alluvial deposits. In some borings glacial till was encountered below the alluvium. Many borings had trace wood fragments or fibers throughout.

Evidence of a non-anthropogenic potential buried surface was present in ten probes (MW-04D, MW-08D, MW-16D, MW-19D, MW-21, SB-35, SB-36, SB-37, SB-38, and SB-39). A buried surface is an organic-laden soil layer that indicates a location that may have once been a stable ground surface, which has the potential to contain archaeological deposits. In the previous phase of investigation, all of the boreholes with these organics with the exception of SB-34 were in the eastern half of the parcel and three were clustered in the northeastern corner of the Project Area. In this phase, borings with organics were concentrated in the eastern portion of the Project Area, with the exception of MW-19D, MW-21, and SB-34. The organics appeared to be moderately decayed vegetation. In the majority of borings with buried surface, the buried surface was generally observed between 11 and 20 ft. bgs, although some borings had organics at 5–6.17 ft. bgs (MW-08D) and at 15.5–18.3 and 20–23 ft. bgs (MW-19D). These shallower organics may be part of a later fill-associated buried surface. Deeper buried surfaces appeared to generally be associated with tidal flat or alluvial deposits. Although the buried surface did not appear cultural, the buried surface may represent a stable portion of the landform from before the river was straightened.

In Phase II, glacial till was observed in six boreholes, as shallowly as 20 to 34.5 ft. bgs in MW-04D, MW-05D, MW-06D, MW-13D (see Figure 8), MW-16D, and MW-18D. Glacial till is expected to be culturally sterile.



Figure 7. Brick debris and concrete mixed in with fill in MW-22, 0–5 ft. bgs.



Figure 8. Shell in MW-13D at 36–37 ft. bgs. Glacial till observed in this sample starting at 35 ft. bgs.

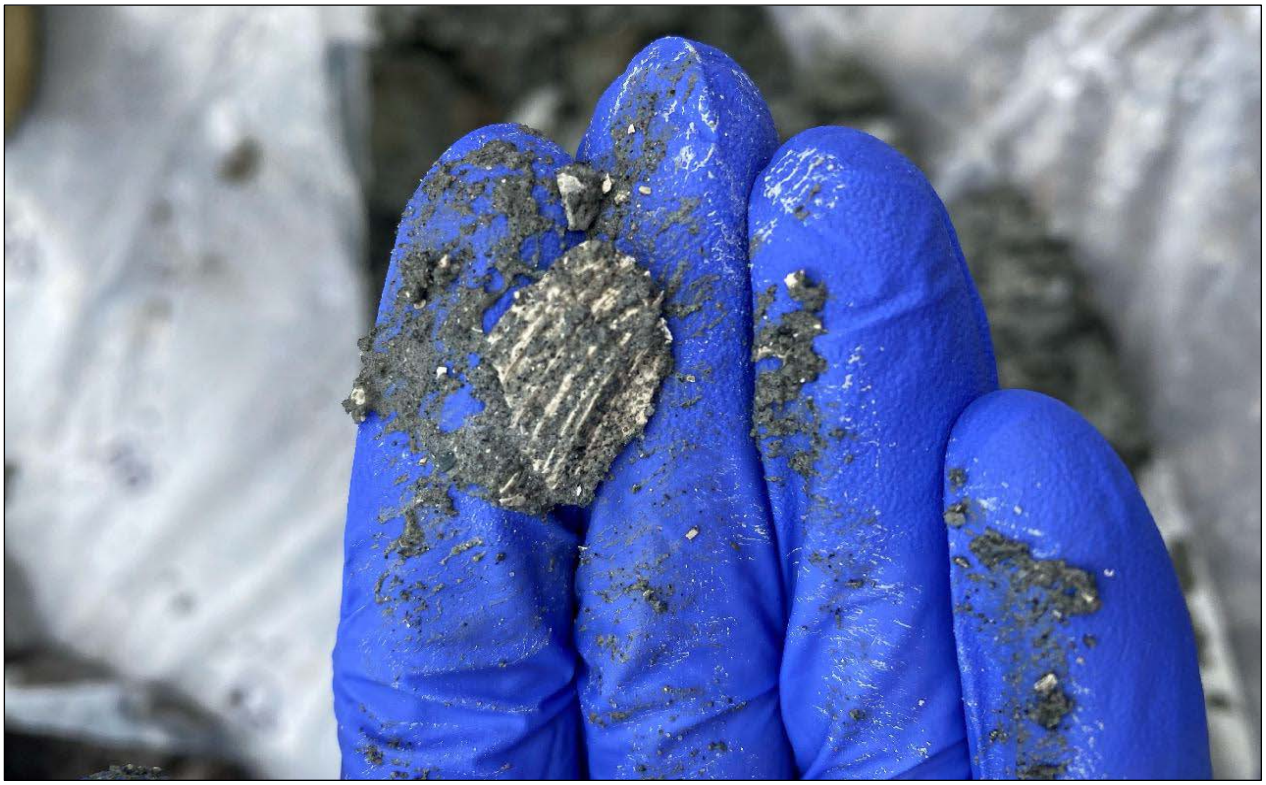


Figure 9. Closeup of shell fragment from MW-13D found at 36–37 ft. bgs.

Shell fragments were observed in three borings at 20.5 ft. bgs (MW-05D), at 36–37 ft. bgs (MW-13D), and at 23.5–25 ft. bgs (MW-18D), generally just above or within glacial till (Figures 9 and 10). Most borings in which shell was present had trace fragments. In MW-13D a thicker deposit of shell was visible at 36 to 37 ft. bgs, in which shell fragments were mixed in with a gray silt.

The fragments were unidentifiable; larger fragments appeared to be some species of bivalve. This deposit was also right above glacial till. None of the shell fragments observed appeared to be cultural in origin, due to their glacial context and lack of additional organic sediments that are associated with cultural midden deposits.

Interpretation

Between 5 and 16 feet of historic fill is known to be present across the Project Area based on both phases of investigation (Kunas and Johnson 2021). The presence of diffuse, nondiagnostic historic debris within the fill is expected and likely represents the use of the property between the 1940s and 1970s by former businesses that were removed by the 1970s. Absent of diagnostic artifacts, features such as foundations, or any stratification of deposits within the fill, none of the observed materials suggest a historic archaeological site.

Based on the presence of observed buried surfaces in several boreholes, it is possible that there are portions of the native landform that have the potential for precontact archaeological

resources, although no precontact cultural resources were observed. Nearby precontact archaeological sites have dense, thick deposits containing shell, fishbone, and charcoal. Nothing like this was present in any boreholes. Shell fragments observed in three borings were in a glacial till context, which is culturally sterile, so the fragments were likely deposited by natural processes. This suggests that either the landform was not utilized—or utilized less intensively—by the people who inhabited the nearby sites, or that if archaeological deposits were present, they were removed during the realignment of the Duwamish River or other historic land modifications.

Recommendations

Generally, WillametteCRA recommends archaeological monitoring of ground-disturbing activity deeper than 5 ft. bgs in the Project Area, which is the minimum depth of the fill deposits observed throughout the project. If historic cultural resources such as an extensive intact brick pavement surface or building foundations are encountered above 5 ft. bgs, work should stop, and an archaeologist should be notified.

Based on the results of Phase II, WillametteCRA's recommendations for future work have not changed. Additional monitoring and an addendum to the MIDP of any subsequent phases is recommended during any remedial activities that are conducted following the completion of the Remedial Investigation and any future Feasibility Study.

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Appendix A:
Results of Borehole Monitoring

Results of Borehole Monitoring.

Bore No.	Sediment Depth (ft. bgs)	Sediment Summary	Cultural Material	Shell	Burnt Organics/Buried Surface
HA-03	0–3	Brown silty gravelly sand fill	No	No	Trace wood fragments 0–0.5 ft bgs
HA-04	0–3	Brown to gray silty sand fill	No	No	Trace wood fragments throughout
HA-05	1–3	Brown gravelly silty sand to silty sand fill	No	No	Trace wood fragments 0–1 ft. bgs
HA-06	0–3	Brown gravelly silty sand to silty sand fill	No	No	Trace wood fragments 0–1 ft. bgs
HA-07	0–3	Brown gravelly silty sand to silty sand fill	No	No	Trace wood fragments 0–1 ft. bgs
MW-4D	0–10	Brown gravelly silty sand to silty sand fill	No	No	Trace burnt wood fragments
	10–17	Dark brown silty sand to silt tidal flat deposits	No	No	Trace wood fragments at 14–16 ft. bgs
	17–22	Dark brown sand to silty sand alluvial deposits	No	No	Trace wood fragments in 6-inch lens between 17 and 20 ft. bgs
	22–30	Dark gray sandy silt to silt glacial till	No	No	No
MW-5D	0–10	Brown gravelly silty sand to silty sand fill	No	No	Trace wood fragments throughout
	10–15	Dark gray silty sand to silt tidal flat deposits	No	No	Trace wood fragments throughout
	15–22	Dark gray sand to silt alluvial deposits	No	One fragment at 20.5 ft. bgs	No
	22–40	Dark gray gravelly sandy silt to silt glacial till	No	No	No
MW-6D	0–8.5	Brown gravelly silty sand to silty sand fill	No	No	Trace wood fragments throughout
	8.5–15.5	Dark brown silty sand to silt tidal flat deposits	No	No	No
	15.5–20	Dark gray sand alluvial deposits	No	No	No
	20–30	Dark gray sandy silt to silt glacial till	No	No	No

Results of Borehole Monitoring (cont.).

Bore No.	Sediment Depth (ft. bgs)	Sediment Summary	Cultural Material	Shell	Burnt Organics/Buried Surface
MW-8D	0–6	Brown gravelly silty sand to sand fill	One melted glass fragment in slough	No	Yes, at 5–6.17 ft. bgs
	6–7.5	Gray-brown silty sand tidal flat deposits	No	No	No
	7.5–24.5	Dark gray-brown sand to sand with silt alluvial deposits	No	No	No
MW-9D	0–6	Brown silty sand to sand fill	One glass fragment found at about 1–3 ft. bgs during potholing for utilities	No	No
	6–12	Gray-brown to gray silty sand tidal flat deposits	No	No	No
	12–25	Gray sand to silty sand alluvial deposits	No	No	Trace wood fragment at 13.5–15 ft. bgs
MW-11D	0–13	Brown gravelly silty sand to silty sand fill	No	No	No
	13–18	Dark gray silty sand to silt tidal flat deposits	No	No	No
	18–25	Dark gray sand to sand with silt alluvial deposits	No	No	No
MW-13D	0–9.5	Brown silty sand to sand fill	No	No	No
	9.5–27	Brown to gray silt to silty sand tidal flat deposits	No	No	No
	27–34.5	Black sand alluvial deposits	No	No	No
	34.5–40	Gray silty sand to gravelly sandy silt glacial till	No	Many shell fragments at 36–37 ft. bgs	No
MW-16	0–10.5	Brown gravelly silty sand to sand fill	Yellow rubbery material at 1.5–2 ft. bgs	No	No

Results of Borehole Monitoring (cont.).

Bore No.	Sediment Depth (ft. bgs)	Sediment Summary	Cultural Material	Shell	Burnt Organics/Buried Surface
MW-16D	0–10.5	Brown gravelly silty sand to silty sand fill	No	No	Trace wood debris throughout
	10.5–13	Dark brown silt tidal flat deposits	No	No	Yes, at 11–12 ft. bgs
	13–20	Dark brown sand with silt alluvial deposits	No	No	Yes, at 19–20 ft. bgs
	20–30	Gray gravelly sandy silt glacial till	No	No	No
MW-17	0–15	Brown silty sand to sand with silt fill	Glass fragments at 2 inches bgs	No	Roots from 0.5-2 ft bgs
	15–20	Dark gray sand with silt alluvial deposits	No	No	No
MW-18	0–7	Brown silt to sand with silt fill	No	No	No
	7–15	Dark gray sand alluvial deposits	No	No	No
MW-18D	0–6.5	Brown silty sand to sand with silt fill	No	No	Trace burnt wood fragments throughout
	6.5–23.5	Gray sand to sand with silt alluvial deposits	No	No	No
	23.5–25	Gray sand with silt and gravel glacial till	No	Trace fine shell fragments	No
MW-19	0–7.75	Gray to black silty sand to sand with silt fill	No	No	No
	7.75–8	Dark gray silty sand tidal flat deposits	No	No	No
MW-19D	0–7.75	Gray to black silty sand to sand with silt fill	No	No	Yes, organics at 8–10.15, 15.5–18.3 and 20–23 ft. bgs
	7.75–10.25	Dark gray silty sand to silt tidal flat deposits	No	No	No
	10.25–25	Dark gray to dark brown sand to sand with silt alluvial deposits	No	No	No

Results of Borehole Monitoring (cont.).

Bore No.	Sediment Depth (ft. bgs)	Sediment Summary	Cultural Material	Shell	Burnt Organics/Buried Surface
MW-20	0–13	Brown silty sand to sand fill	No	No	No
	13–20	Dark gray sand alluvial deposits	No	No	No
MW-21	0–11.5	Brown to gray sand to silty sand fill	No	No	No
	11.5–13	Gray-brown to dark gray sandy silt to silty sand tidal flat deposits	No	No	Trace wood fibers throughout
	13–20	Dark gray sand to silty sand alluvial deposits	No	No	Wood at 19 ft. bgs
MW-22	0–11.5	Gray gravelly silty sand to sand fill with concrete at 1.5–2.5 ft bgs	Debris (brick, wood, concrete, 1 glass fragment) at 0–2.5 ft. bgs	No	No
	11.5–15	Gray sand to silt tidal flat deposits	No	No	Trace twigs and wood debris throughout
	15–20	Dark gray sand alluvial deposits	No	No	No
SB-35	0–11.75	Brown to gray brow sand to sand with silt fill	No	No	No
	11.75–16	Gray sandy silt to silt tidal flat deposits	No	No	Yes, at 13.5 and 15.5 ft. bgs
	16–20	Gray sandy silt to silty sand alluvial deposits	No	No	No
SB-36	0–11.5	Brown sand with silt and gravel to sand fill	Trace brick fragments at 0–1.5 ft. bgs	No	No
	11.5–13.5	Dark gray silt with sand to silt tidal flat deposits	No	No	Yes, at 12.5–13.5 ft. bgs
	13.5–20	Gray-brown to brown sand to sandy silt alluvial deposits	No	No	Trace wood fibers at 17.75–18.25 ft. bgs

Results of Borehole Monitoring (cont.).

Bore No.	Sediment Depth (ft. bgs)	Sediment Summary	Cultural Material	Shell	Burnt Organics/Buried Surface
SB-37	0–12	Brown silty sand to sand fill	Brick debris at 0.5 ft. bgs	No	No
	12–15	Gray-brown silt tidal flat deposits	No	No	Wood debris at 12.5 ft. bgs
	15–20	Dark gray sand alluvial deposits	No	No	No
SB-38	0–11	Gray silty sand to sand fill	Wood debris and 1 glass fragment at 5 ft. bgs	No	No
	11–20	Gray silt to silty sand tidal flat deposits	No	No	Yes, at 12 ft. bgs
SB-39	0–11.5	Brown sand to sand with silt fill	Wood and plastic debris 0-0.5 ft. bgs and at 5 ft. bgs	No	Yes, at 11 ft. bgs
	11.5–13	Gray silt to silty sand tidal flat deposits	No	No	Trace wood fibers
	13–20	Gray-brown sand alluvial deposits	No	No	No
SB-40	0–7.5	Gray-brown to dark gray silty sand to sand with silt fill	Wood debris at 1 ft.	No	No
	7.5–13	Dark gray silt to sand with silt tidal flat deposits	No	No	Trace wood fibers and fragments near 7.5 ft. bgs
	13–20	Dark gray sand alluvial deposits	No	No	No
SB-41	0–7.25	Brown silty sand with gravels to sand fill	No	No	Trace wood fibers at 0–1 ft bgs
	7.25–7.75	Gray silty sand tidal flat deposits	No	No	No
	7.75–20	Dark gray sand alluvial deposits	No	No	No

Results of Borehole Monitoring (cont.).

Bore No.	Sediment Depth (ft. bgs)	Sediment Summary	Cultural Material	Shell	Burnt Organics/Buried Surface
SB-42	0–10	Brown to dark gray sand with silt and gravels fill	Wood chunks at 2.5 ft. bgs, plastic sheeting at 4 ft. bgs	No	No
	10–11	Dark gray silt tidal flat deposits	No	No	No
	11–12	Dark brown sand with silt alluvial deposits	No	No	No
SB-43	0–8	Brown silty sand to sand fill	No	No	Trace wood fibers 0–2.5 ft. bgs
	8–11	Dark gray silty sand to silt tidal flat deposits	No	No	Trace wood fibers 9–11 ft. bgs
	11–12	Brown sand with silt alluvial deposits	No	No	No

APPENDIX E

Wet Weather Site Walk Observations and Seep Locations, Photographs, and Measurements

APPENDIX E.1

Wet Weather Site Walk Field Report

DAILY REPORT

350 Madison Avenue North
Bainbridge Island, Washington 98110
(206) 780-9370

710 Second Avenue, Suite 550
Seattle, Washington 98104
(206) 328-7443

DATE: FEBRARY 1, 2021	**PROJECT NO.** 190293	**WEATHER:** RAINING, 45-50F
PROJECT NAME: South Park Marina RI - Wet-Weather Site Walk	**CLIENT:** SEATTLE CITY LIGHT, PORT OF SEATTLE, SOUTH PARK MARINA	
EQUIPMENT USED: CAMERA, FLASHLIGHT, POLE	**PROJECT LOCATION:** 8604 DALLAS AVE S, SEATTLE, WA 98108	

THE FOLLOWING WAS NOTED:

Arrival: 11 am
Departure: 12:45 pm

Participants: Aspect (James Packman and Kirsi Longley), TIG Environmental (Betsy Wing), and GeoSyntec (Giovanna Pagnozzi).

Site Visit Objectives: 1) Observe stormwater movement on the property and adjoining streets and map stormwater flow directions; 3) observe the shoreline bank for the presence of erodible soils and seeps; and 4) observe if overland flow is present on the boat ramp.

The following is a summary of observations from the site visit:

1. Stormwater Movement
    - Stormwater flow directions and slope directions were observed. See attached figure noting key observations.
    - No runoff was observed flowing to or from Dallas Avenue and the SPM property (photos 1 and 2). Minor vehicle track-in of stormwater at the three marina entrances.
    - No runoff was observed from the upland SPM property flowing directly to the LDW, other than boat ramp (see below).
    - Each catch basin (CB) is of a different size, configuration and construction. The following observations were made at each catch basin:
        - CB-01 – Could not field locate the former location of this decommissioned catch basin. The area where it is believed to have been located is asphalt pavement.
        - CB-02 – Rectangular shaped, covered by 3-panel wooden slats and solid metal sheet. Fabric filter with sediment accumulated inside of it. (See photos 3 and 4.)
        - CB-03 – Small, square shaped with plastic slat cover. Catch basin is located inside of Rick's Master Marine boat storage yard and is largely obscured by sediment and vegetation growth. The yard is fenced and locked and runoff was observed through fence flowing into catch basin. (photo 5).
        - CB-04 – Round shaped, with metal cover with circular perforations. Catch basin is largely obscured by sediment. Located between tire storage in outdoor storage area of Tire Factory behind a locked fence. (See photo 6.)
        - CB-05 – Square shaped, with wooden slat cover. Did not open catch basin. Runoff from parking lot observed flowing into catch basin. (See photo 7.)
        - CB-06 – Round shaped, with metal cover with circular perforations. Did not open catch basin. Runoff from parking lot observed flowing into catch basin. (See photo 8.)

- CB-07 – Square shaped, with metal slatted grate. Blue paint chips accumulated inside. No filter fabric observed. Unclear if there is a metal filter basket. Runoff from boat storage area observed flowing into catch basin. (See photo 9.)
- CB-08 – Square shaped, with metal slatted grate. Did not open catch basin. Runoff from parking lot observed flowing into catch basin. (See photo 10.)
- Boat wash pump vault - Square shaped, with metal slatted grate. Runoff from parking lot pooled on top of vault. (See photo 11).
- CB-09 - Square shaped, with metal slatted grate. Contains reusable metal filter basket with solids accumulated. Limited solids observed below basket at bottom of catch basin. Runoff from boat storage area observed flowing into catch basin. (See photo 12.)
- Stormwater Rx pre-treatment pump vault – Large circular manhole with laminated plywood cover. Contains float-switch enabled pump. Pump was running at time of observation. (See photo 13.)

2. Shoreline Inspection
    - Tide conditions were falling during the site visit. Low tide (+4.6 feet) was at 1:50 pm (after departure).
    - Shoreline banks are generally stabilized by a vertical Ecology block wall (see photo 4). No significant erodible soils noted above OHHW. Thin strip of vegetated sediment and gravel at base of wall north of SPM Outfall area (photos 14 through 16).
    - No seeps were observed coming from the shoreline bank.

3. Boat ramp
    - Limited flow observed down the boat ramp. The flow appears to be primarily from the boat ramp itself and a small portion from top of ramp (photo 17).
    - Ability to sample the boat ramp runoff will depend on intensity of rain event. During light-to-modest rain event may not be able to collect a sample, or may result in limited volume.

DAILY REPORT



Photo 1 – Dallas Avenue, view north.



Photo 2 – Dallas Avenue, view south.



Photos 3 and 4 – Catch Basin CB-02, covered and uncovered.



Photo 5 – Catch Basin CB-03 (at red arrow), obscured by vegetated sediment.



Photo 6 – Catch Basin CB-04, indicated by red arrow.



Photo 7 – Catch Basin CB-05.

PROJECT NO.: 190293	**PROJECT NAME:** South Park Marina Ri - Wet-Weather Site Walk	**DATE:** February 1, 2021



Photo 8 – Catch Basin CB-06 (at red arrow).

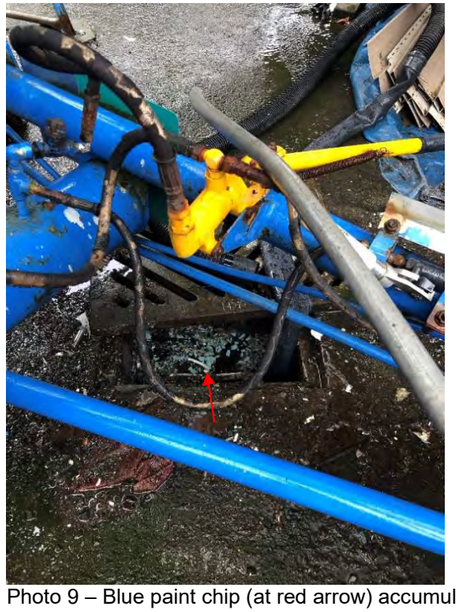


Photo 9 – Blue paint chip (at red arrow) accumulation inside catch basin CB-07.



Photo 10 – Catch Basin CB-08 (L) and boat wash pump vault (R).





Photos 11 and 12 – Catch Basin CB-09, located inside boat storage area with metal filter basket removed.



Photo 13 – Pump vault prior to Stormwater Rx System.

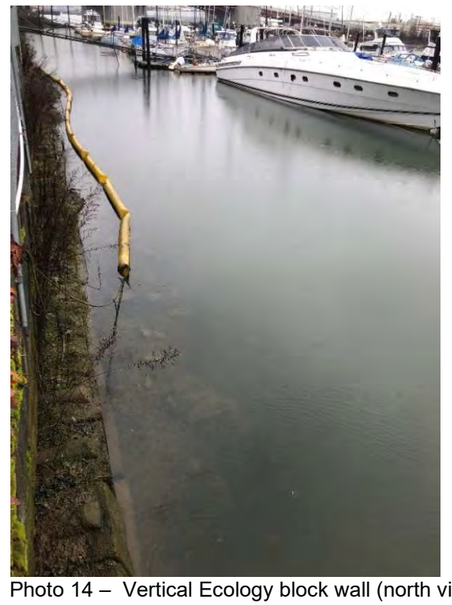


Photo 14 – Vertical Ecology block wall (north view)

PROJECT NO.: 190293	**PROJECT NAME:** South Park Marina Ri - Wet-Weather Site Walk	**DATE:** February 1, 2021

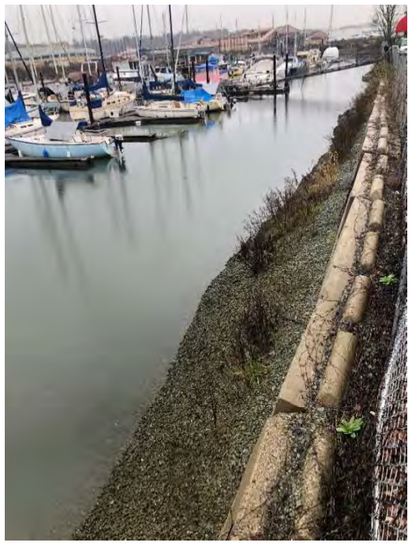


Photo 15 – Vegetated gravel below MHHW and Ecology block wall along shoreline (south view)



Photo 16 – From Boat Ramp view of shoreline and vegetated sediment below MHHW and Ecology block wall. South view.

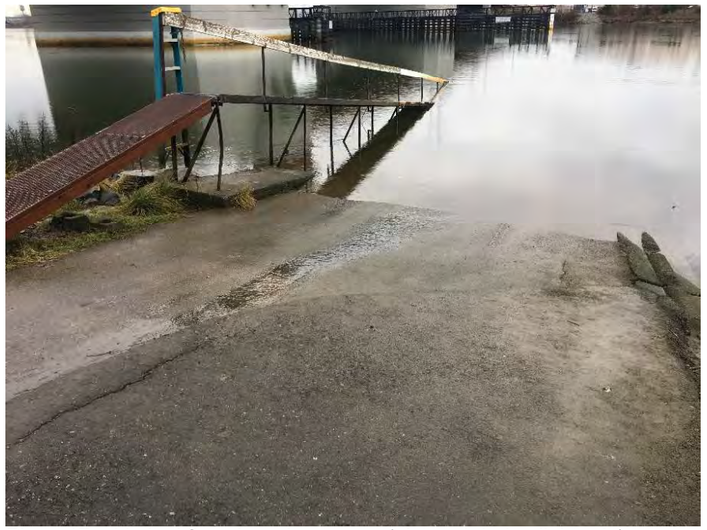


Photo 17 – Limited flow down boat ramp (pictured during light rain).

SOUTH PARK BRIDGE

Duwamish Waterway

OF-2215

Observed limited flow down boat ramp

Could not locate former location of CB-01.

No erodible bank soils above OHHW. Vegetated sediment at base of Ecology block wall, below OHHW.

CB-03 located at corner of Rick's Master Marine yard

Could not see this outfall

SPM Outfall

Pools of standing water along driveway. No flow.

No runoff observed in the green infiltration zone. No runoff flowing over into LDW.

CB-01

CB-10

CB-03

CB-02

CB-05

CB-06

S THISTLE ST

Connects to rest of sanitary sewer pipe network

Water ponded on top of boat wash pump vault.

Decommissioned Boat Wash Drainline to Unnamed Outfall No. 2

CB-04

CB-04 surrounded by tires

Unnamed Outfall No. 1 (UOF-1)

Could not see this outfall

Unnamed Catch Basin

Boat Wash Water Treatment System

CB-07

CB-08

CB-09

OF-2214 (overflow)

Observed corrugated piping for OF-2214

Storm Drain

This catch basin appears mis-located in City data. Actually located on side of street as marked with arrows.

17th Avenue S Storm Drain

Blue paint chips accumulated inside CB-07.

StormwateRx Treatment System

Observed pump on. Some solids accumulated in bottom of vault.

CB-09 contains metal screen to collect solids. Limited accumulation of solids below screen. Paint chips observed in water below screen.

S CLOVERDALE ST

Pervious Surface (gravel)

Site Boundary

King County Tax Parcel

Stormwater Infrastucture

- Catch Basin
- Overflow
- Manhole
- Metal Roof Drain
- Non Metal Roof Drain
- Outfall (Existing and Decommissioned)
- Pump Station
- Pump Vault
- Vessel Wash Wastewater Catch Basin
- Yard Drain

Observed stormwater flow

Slope direction

Stormwater Catchment Areas and Discharge Areas

- City of Seattle Combined Sewer System
- Infiltrates Through Gravel Surface
- OF-2214 (South Park Marina SD)
- OF-2215
- Offsite Directly to River
- South Park Marina Outfall
- 17th Avenue S Storm Drain
- Boat Wash Pad

Note:

- Site features are approximate.

0 80 160

Feet

N

Project North

True North

Wet-Weather Site Visit Observations 02-01-2021

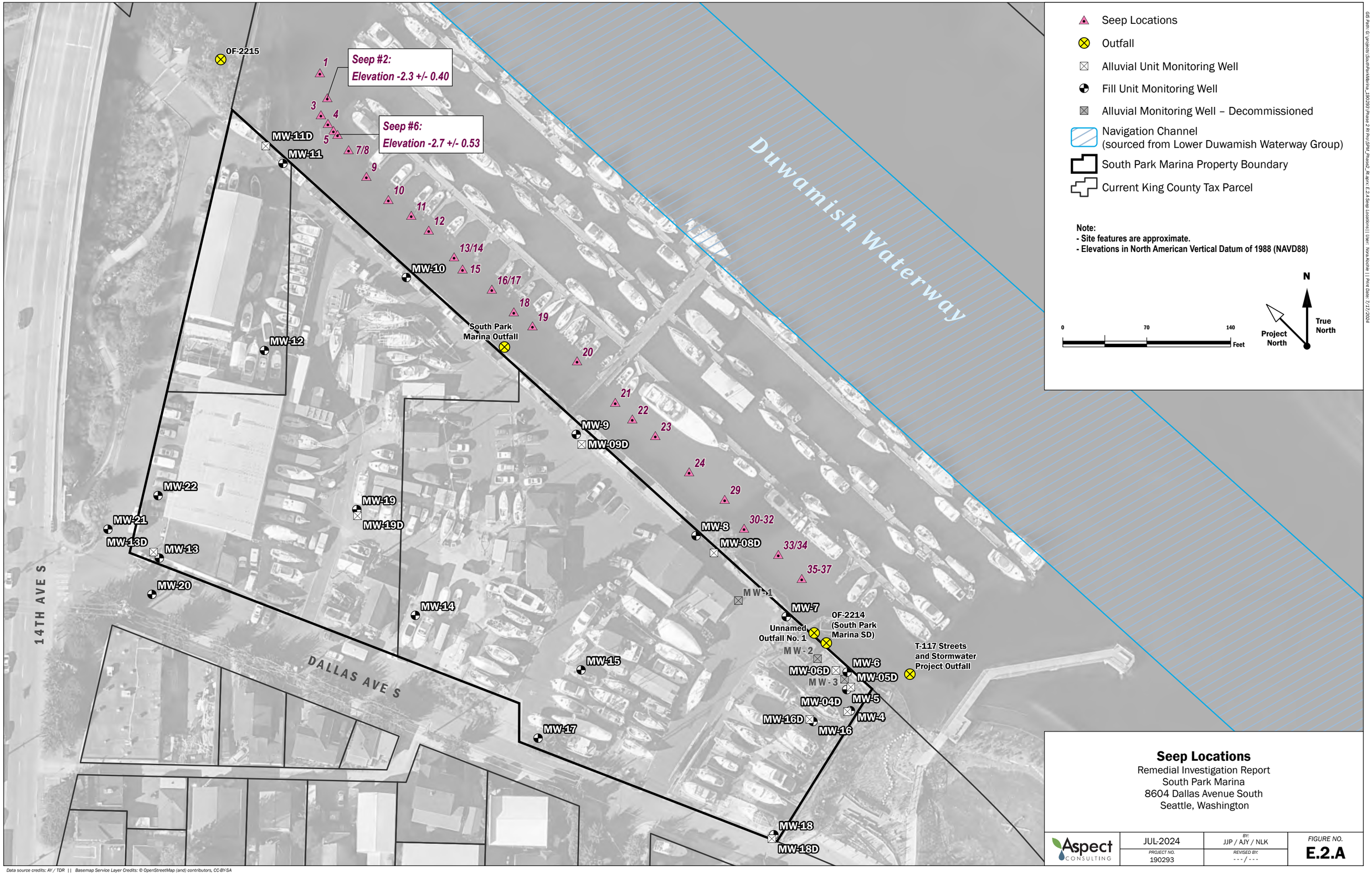
G:\Path T\projects_8\SeattleCity\Light\SouthParkMarina_190233\Deliverect\RIWP\2.4 Stormwater Catchment Areas and Infrastructure.mxd JJ Coordinate System: NAD 1983 StatePlane Washington North FIPS 4601 Feet JJ Date Saved: 2020-10-27 JJ User: tfallen JJ Print Date: 2020-10-27

APPENDIX E.2

Seep Locations, Photographs, and Measurements

APPENDIX E.2.A

Seep Locations



Seep Locations

Remedial Investigation Report
South Park Marina
8604 Dallas Avenue South
Seattle, Washington

Aspect Consulting	JUL-2024	BY: JJP / AJY / NLK	FIGURE NO. E.2.A
	PROJECT NO. 190293	REVISED BY: ---/---	

Data source credits: AY / TDR || Basemap Service Layer Credits: © OpenStreetMap (and) contributors, CC-BY-SA

GIS Path: G:\projects\SouthParkMarina_190293\Phase 2 PH ProjSPM_Phase2_Rpt.aprx\E.2.A Seep Locations\n|| User: NoraKoch || Print Date: 7/17/2024

APPENDIX E.2.B

Select Seep Photographs



Seeps #1 through 3: Facing south from the boat ramp.



Seep #2: Facing south.



Seep #6: Facing north.



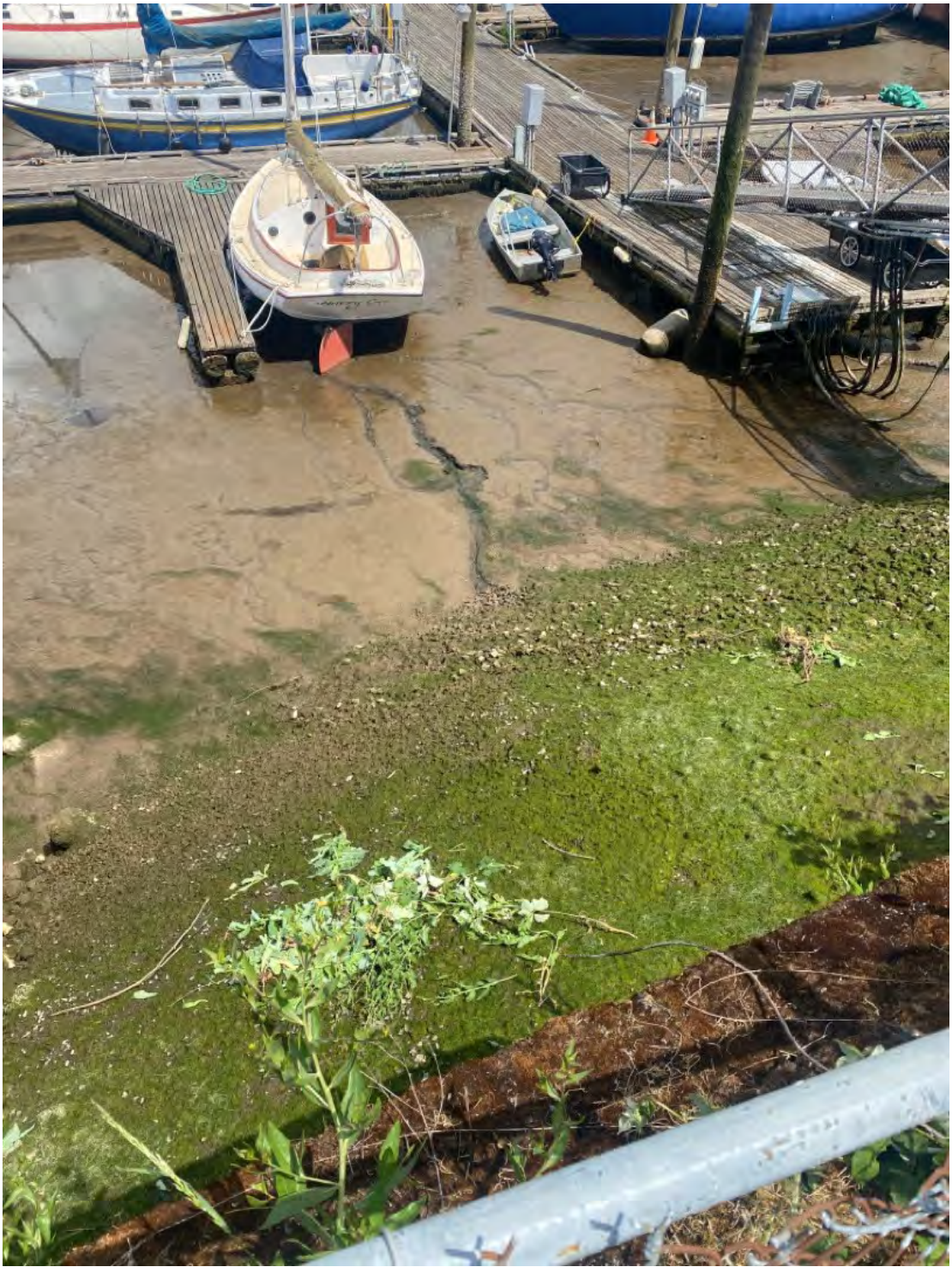
Seeps #7 and #8: Facing east towards the LDW.



Seep #10: Facing east towards the LDW.



Seeps #13/14 and 15: Facing east towards the LDW.



Seep #20: Facing east towards the LDW.



Seep #21: Facing east towards the LDW.



Seeps #24 to 28: Facing southeast towards the LDW.



Seeps #33 to 37: Facing southeast towards the LDW.



Southern end of SPM Property (facing east towards the LDW) where sediment was dredged as part of the T-117 Early Action Area.

APPENDIX E.2.C

Seep Measurements

Table E.2.C. Seep Field Parameters and Flow Rates

South Park Marina Site, Seattle, Washington

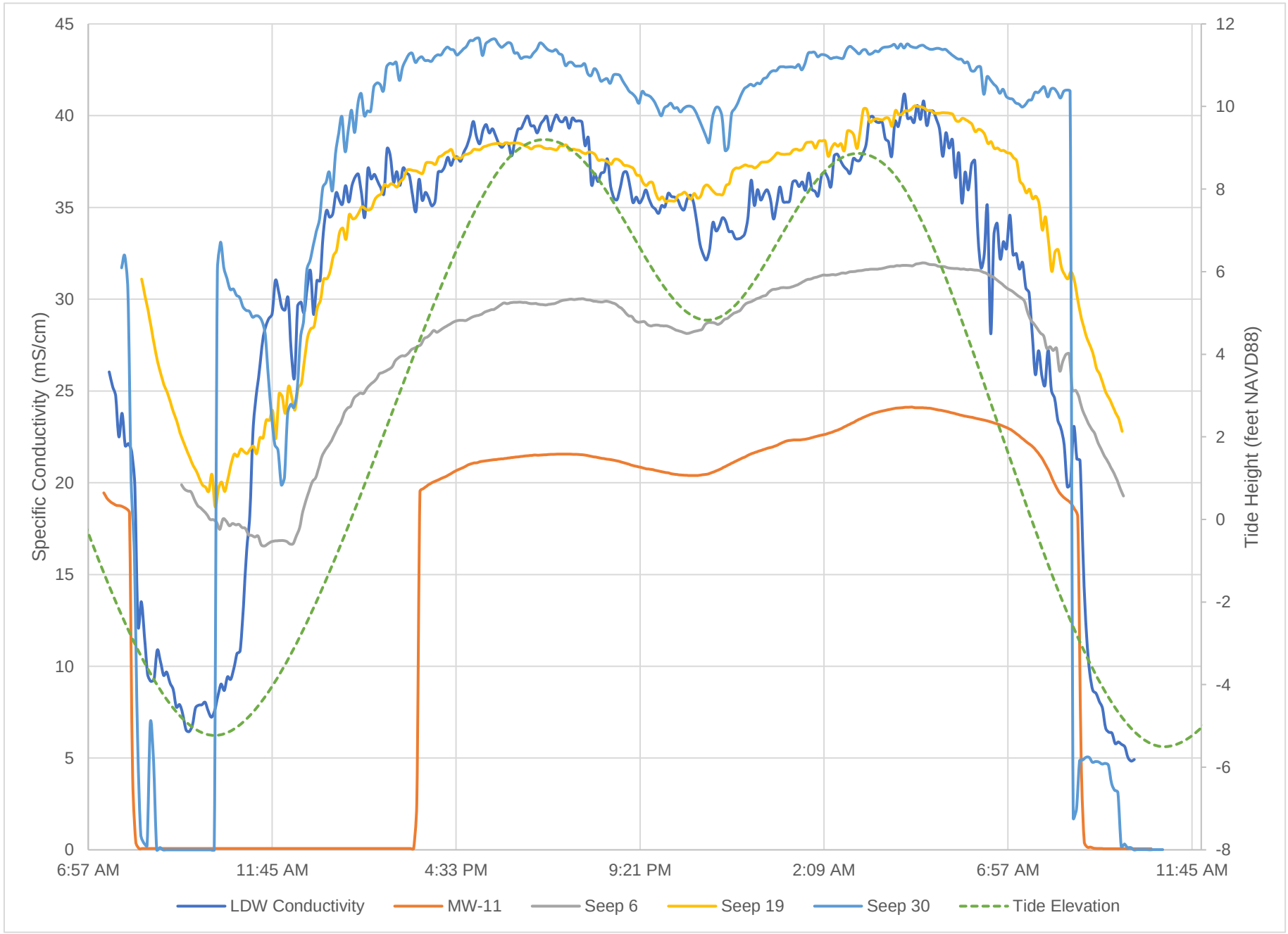
Seep Location	Time	Temperature (degrees C)	Dissolved Oxygen (mg/L)	Conductivity (us/cm)	pH	ORP (mV)	Turbidity (NTU)	Flow Rate (L/min)
6	10:06	14.4	4.23	25,160	6.39	159	19.2	> 44
10	9:58	14.0	6.18	34,900	6.67	179	23.3	> 12
15	9:48	14.3	6.43	32,160	6.89	179	17.0	> 14.4
18	9:26	14.0	6.12	24,450	6.56	201	22.6	> 24
19	9:13	13.8	6.65	29,731	6.69	209	29.0	> 21
30	8:55	14.1	6.02	39,659	7.51	215	14.7	> 12
35	8:34	15.0	6.09	32,320	7.29	226	11.0	NM

Notes:

Refer to Figure E.2.A for Seep Locations
Seep measurements collected while seeps were exposed during low-low tide on July 22, 2021.
C = Celsius
mg/L = milligrams per liter
us/cm = microsiemens per centimeter
mV = millivolts
NTU = nephelometric turbidity units
L/min = liters per minute

Figure E.2.C.1. Seep Conductivity Measurements - July 22 to 23, 2021

South Park Marina Site, Seattle, Washington



Aspect Consulting

7/16/2024

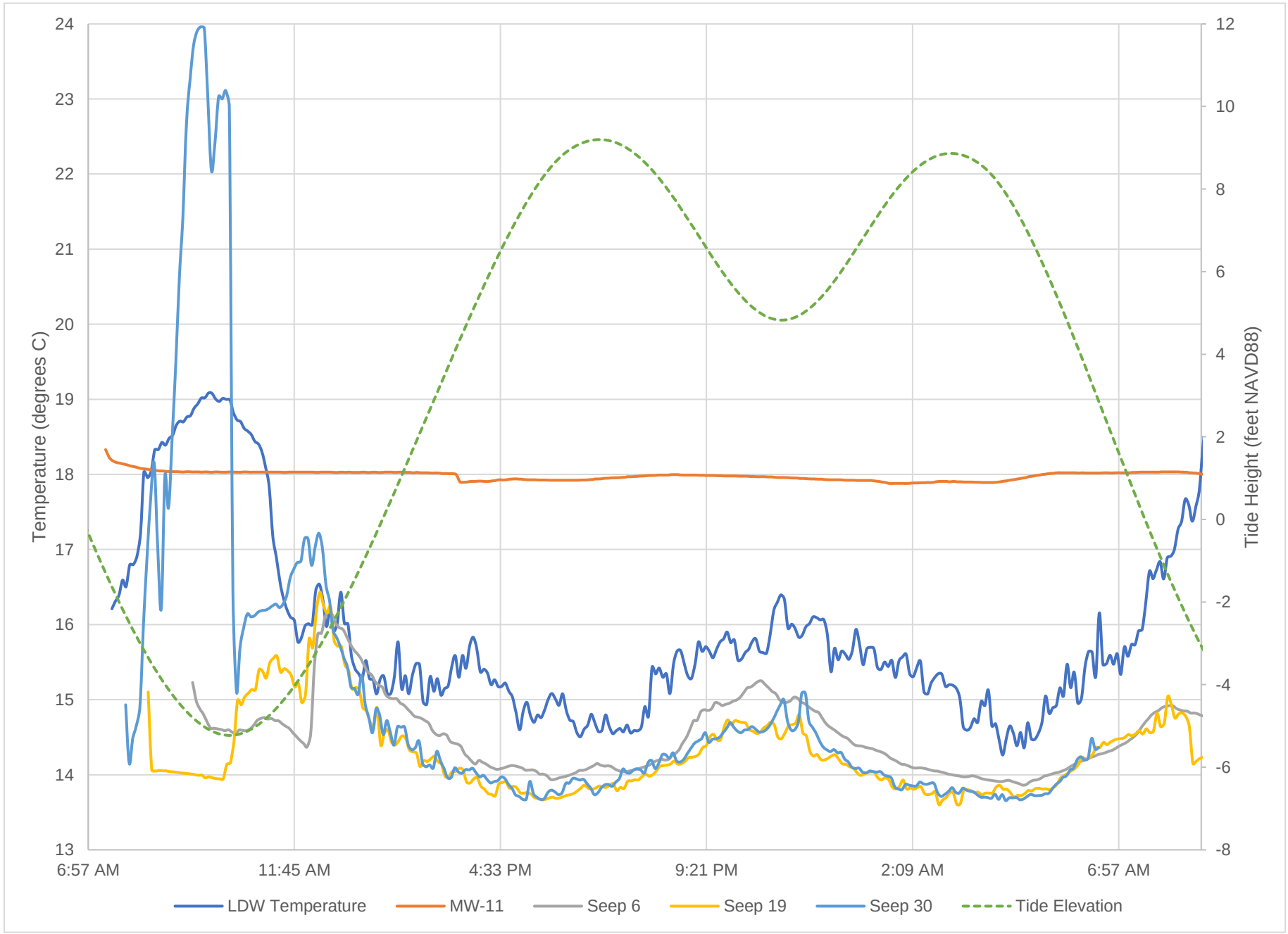
\\ASP-Sea-01\Projects\Seattle City Light\South Park Marina RI\Data\Analyses\Seep Evaluation\Seep Conductivity & Temperature

Figure E.2.C.1

Remedial Investigation Report

Figure E.2.C.2. Seep Temperature Measurements - July 22 to 23, 2021

South Park Marina Site, Seattle, Washington



Aspect Consulting

7/16/2024

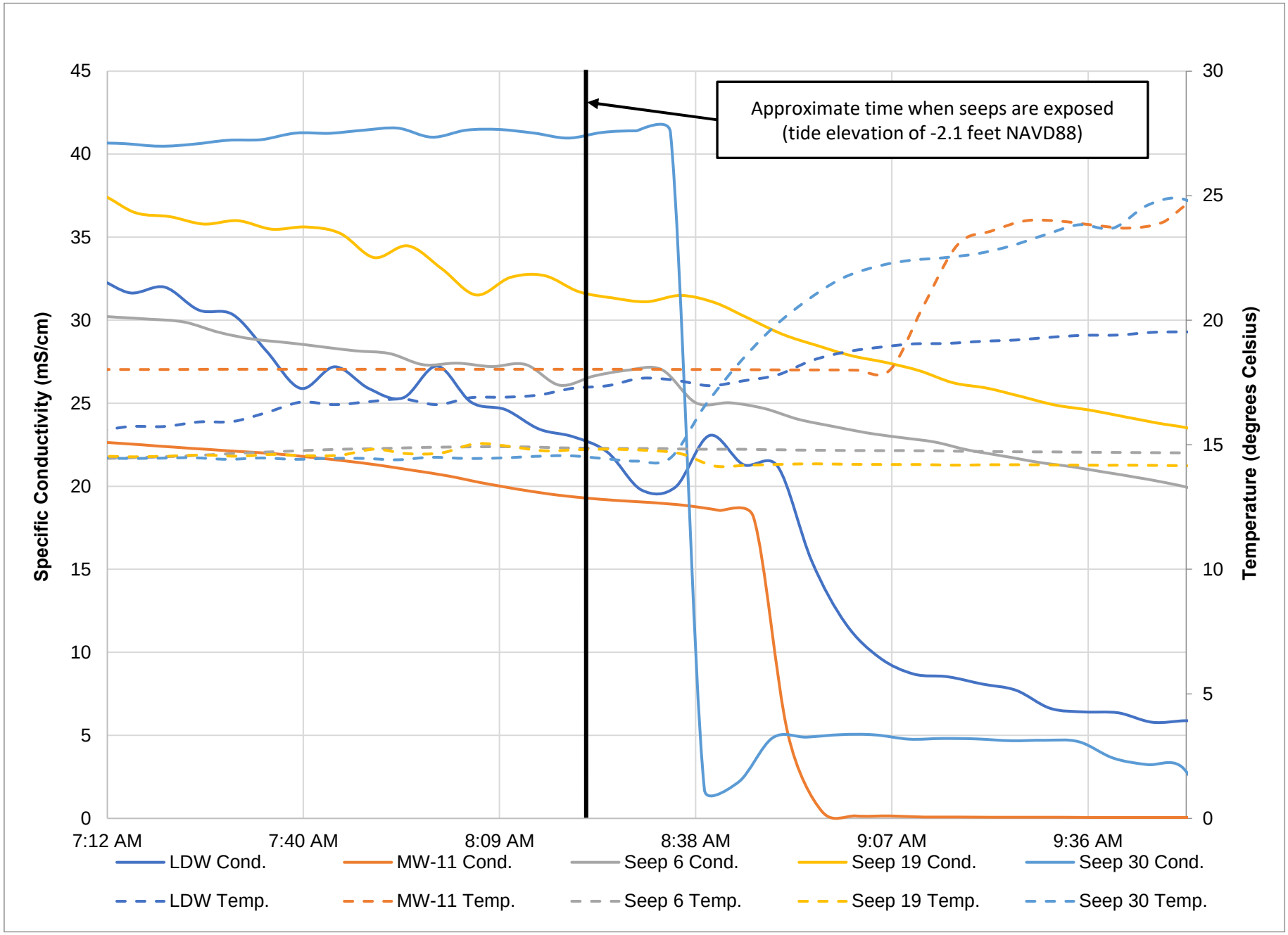
\\ASP-Sea-01\Projects\Seattle City Light\South Park Marina RI\Data\Analyses\Seep Evaluation\Seep Conductivity & Temperature

Figure E.2.C.2

Remedial Investigation Report

Figure E.2.C.3. Seep Temperature vs. Conductivity - Falling Tide - July 23, 2021

South Park Marina Site, Seattle, Washington



Aspect Consulting

7/16/2024

\\ASP-Sea-01\Projects\Seattle City Light\South Park Marina RI\Data\Analyses\Seep Evaluation\Seep Conductivity & Temperature

Figure E.2.C.3

Remedial Investigation Report

APPENDIX F

Investigation-Derived Waste (IDW) Disposal Records

APPENDIX F.1

Phase 1 IDW
Disposal Records

Please print or type. 482322 Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: WAD988513248
2. Page 1 of 2
3. Emergency Response Phone: 800-337-7455
4. Manifest Tracking Number: 021751326 JJK

5. Generator's Name and Mailing Address
South Park Marina
8604 Dallas Ave South
Seattle WA 98108
Att: Steve Brown
Generator's Site Address (if different than mailing address)
Generator's Phone: 206 762-3000

6. Transporter 1 Company Name: DH Environmental Inc.
U.S. EPA ID Number: WAH000047217

7. Transporter 2 Company Name: Chemical Waste Management
U.S. EPA ID Number: ORD089452353

8. Designated Facility Name and Site Address
CHEMICAL WASTE MANAGEMENT, INC
17629 CEDAR SPRINGS LANE
ARLINGTON OR 97812
Facility's Phone: 541 454-2843
U.S. EPA ID Number: ORD089452353

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. NA3077, Hazardous waste, solid, n.o.s. (Lead, Tetrachloroethylene) 9, PGIII	002	DM	635 ~~1400~~	K	D008 D007	F002 D009	
X	2. NA3077, Hazardous waste, solid, n.o.s. (Tetrachloroethylene, Soil) 9, PGIII	001	DM	1400	P	F002		
X	3. NA3082, Hazardous waste, liquid, n.o.s. (Tetrachloroethylene, Water) 9, PGIII	003 001	DM	600	P	F002		
	4.							

JW 6/24/21

14. Special Handling Instructions and Additional Information
1) Profile# OR347322 ERG#171 2)(T) Profile# OR347321 ERG#171 3)(T) Profile# OR347320 ERG#171
980541

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Guy M. Crow
Signature: Guy M. C
Month 5 Day 28 Year 21

INTL
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER
17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Jacob Brien
Signature:
Month 5 Day 28 Year 21
Transporter 2 Printed/Typed Name: J. Powell
Signature:
Month 6 Day 18 Year 21

DESIGNATED FACILITY
18. Discrepancy
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
move drum 2 from line -02 to profile OR347320 line item #3 per Scott St. John/DH Environmental JW 6/24/21
Manifest Reference Number:
18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H040 2. H132 3. H132 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Dawn Dingle
Signature:
Month 6 Day 23 Year 21

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete. DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

CWMI

Please print or type. 482322 Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator ID Number	22. Page 2 of 2	23. Manifest Tracking Number
	WAD988513248		021751326 JJK

24. Generator's Name: SOUTH PARK MARINA

25. Transporter 3 Company Name: UPRR — U.S. EPA ID Number: NED001792910

26. Transporter ____ Company Name: CRLF — U.S. EPA ID Number: ORD987173457

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		
	6.							
	7.							
	8.							
	9.							
	10.							
	11.							
	12.							
	13.							
	14.							

GENERATOR

32. Special Handling Instructions and Additional Information
CONTAINER # WMXU 980541

TRANSPORTER

33. Transporter 3 Acknowledgment of Receipt of Materials
Printed/Typed Name: Gaitheimer Signature: GA Month 06 Day 10 Year 21

34. Transporter ____ Acknowledgment of Receipt of Materials
Printed/Typed Name: Brittney Hawins Signature: BH Month 06 Day 17 Year 21

DESIGNATED FACILITY

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

EPA Form 8700-22A (Rev. 12-17) Previous editions are obsolete. DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

APPENDIX F.2

Phase 2 IDW
Disposal Records

SPM-1

494930

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
WAD988513248	2	800-337-7455	023708782 JJK

GENERATOR

5. Generator's Name and Mailing Address
South Park Marina
8604 Dallas Ave S
Seattle WA 98108
Attn: Steve Brown
Generator's Site Address (if different than mailing address)
Generator's Phone: 206 762 3880

6. Transporter 1 Company Name: DH Environmental Inc — U.S. EPA ID Number: WAH000047217

7. Transporter 2 Company Name: Chemical Waste Management — U.S. EPA ID Number: ORD089452353

8. Designated Facility Name and Site Address
CHEMICAL WASTE MANAGEMENT, INC
17629 CEDAR SPRINGS LANE
ARLINGTON OR 97812
Facility's Phone: 541 454-2843
U.S. EPA ID Number: ORD089452353

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. Material Not Regulated by DOT (Washington State Dangerous Waste Only, Toxic)	09	DM	7200	P	WT02
	2. Non-RCRA, non-DOT (IDW Water OR353807)	01	DM	350	P	NONE
X	3. NA3077, Hazardous waste, solid, n.o.s. (Tetrachloroethylene, Trichloroethylene) 9, PGIII	04	DM	3200	P	F002
X	4. NA3077, Hazardous waste, solid, n.o.s. (Lead, PCB) 9, PGIII	01	DM	363 ~~300~~	K ~~P~~	WT02 Yard Per Scott St. John

14. Special Handling Instructions and Additional Information
1) Profile# OR353806 2) Profile# OR353807 3) Profile# OR347321 ERG#171 4) Profile# OR338847 ERG#171
0050 2/20/23
Waiver#SPM001
Per Scott St. John/ Director of Operations
970611 lbs

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Steve Brown — Signature — Month 2 Day 22 Year 23

TRANSPORTER INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Jake Heatherly — Signature — Month 02 Day 22 Year 23

Transporter 2 Printed/Typed Name — Signature — Month 2 Day 22 Year 23

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☒ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Permission to add F002 waste code waiver ID #, autoserve date and chart weight to kilograms per Scott St. John IDOPS on 2/20/23
Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132	H132	H132	H132

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Dawn Dunlap — Signature — Month 3 Day 17 Year 23

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) 494930 Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)

21. Generator ID Number	22. Page	23. Manifest Tracking Number
WAD988513248	2 of 2	023708782JJK

24. Generator's Name: South Park Marina

25. Transporter 3 Company Name: ~~[illegible]~~ UPRR EQT PCC — U.S. EPA ID Number: PWD 11/6/23 | NED001792910

26. Transporter 4 Company Name: U.S. EPA ID Number: ORD071734527 PCC0000411PD

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes
X	(5) NA3082, Hazardous waste, liquid, n.o.s. (Tetrachloroethylene, Trichloroethylene) 9, PGIII	07	DM	2800	P	F002

32. Special Handling Instructions and Additional Information
(1) (5) Profile# OR347320 ERG#171

JOHNSON 970611

GENERATOR

TRANSPORTER

33. Transporter 3 Acknowledgment of Receipt of Materials
Printed/Typed Name: Lori Mercer — Signature: Lori Mercer — Month 10 Day 24 Year 23

34. Transporter 4 Acknowledgment of Receipt of Materials
Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
H132

494931

Please print or type. Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: WAD988351248
2. Page 1 of: 2 1
3. Emergency Response Phone: 800-337-7455
4. Manifest Tracking Number: 023708783 JJK

5. Generator's Name and Mailing Address
South Park Marina
8604 Dallas Ave S
Seattle WA 98108
Attn: Steve Brown
Generator's Site Address (if different than mailing address)
Generator's Phone: 206 762-3880

6. Transporter 1 Company Name: DH Environmental Inc.
U.S. EPA ID Number: WAH000047217

7. Transporter 2 Company Name: Chemical Waste Management
U.S. EPA ID Number: ORD084523533

8. Designated Facility Name and Site Address
CHEMICAL WASTE MANAGEMENT, INC
17629 CEDAR SPRINGS LANE
ARLINGTON OR 97812
Facility's Phone: 541 454-2843
U.S. EPA ID Number: ORD084523533

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA, non-DOT (IDW Debris OR353804)	10	DM	1000	P	NONE		
X	2. NA3077, Hazardous waste, solid, n.o.s. (Tetrachloroethylene, Trichloroethylene) 9, PGIII	03	DM	2400	P	F002		
	3. Non-RCRA, non-DOT (IDW Water OR353807)	1 04	DM	1300	P	NONE		
	4.							

14. Special Handling Instructions and Additional Information
1) Profile# OR353804 2)(T) Profile# OR347321 ERG#171 3) Profile# OR353807
WMSW 970611

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: x Stephen Brown
Signature: x
Month Day Year: x 2 22 23

INTL
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER
17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Jake Heatherly
Signature:
Month Day Year: 02 22 23
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year: 2 22 23

DESIGNATED FACILITY
18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. H132 3. H132 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Dawn Dinley
Signature:
Month Day Year: 3 16 23

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete. DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

TC

CWMI

Please print or type. 494931 Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator ID Number	22. Page 2 of 2	23. Manifest Tracking Number
	WAD988513248		023708783 JJK

24. Generator's Name: SOUTH PARK MARINA

25. Transporter 3 Company Name: UNION PACIFIC RAILROAD — U.S. EPA ID Number: NED001792810 — Dup 3/16/23

26. Transporter 4 Company Name: ~~COLUMBIA RIDGE LANDFILL~~ DCC — U.S. EPA ID Number: ~~ORD987173457~~ ORQ000041180

27a HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes
	6.					
	7.					
	8.					
	9.					
	10.					
	11.					
	12.					
	13.					
	14.					

32. Special Handling Instructions and Additional Information
CONTAINER # WMXU 970611

GENERATOR

TRANSPORTER

33. Transporter 3 Acknowledgment of Receipt of Materials
Printed/Typed Name: Lori Mercer — Signature: Lori Mercer — Month: 02 Day: 24 Year: 23

34. Transporter 4 Acknowledgment of Receipt of Materials
Printed/Typed Name: — Signature: — Month: Day: Year:

DESIGNATED FACILITY

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

APPENDIX F.3

Phase 3 IDW
Disposal Records

Please print or type. 495878 Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: WAD988513248
2. Page 1 of 2
3. Emergency Response Phone: 800-337-7455
4. Manifest Tracking Number: 023708834 JJK

GENERATOR

5. Generator's Name and Mailing Address
South Park Marina
8604 Dallas Ave S
Seattle WA 98108
Att: Steve Brown
Generator's Site Address (if different than mailing address)
Generator's Phone: 206 762-3820

6. Transporter 1 Company Name: DH Environmental Inc.
U.S. EPA ID Number: WAH000047217

7. Transporter 2 Company Name: Chemical Waste Management
U.S. EPA ID Number: ORD089452363

8. Designated Facility Name and Site Address
CHEMICAL WASTE MANAGEMENT, INC
17629 CEDAR SPRINGS LANE
ARLINGTON OR 97812
Facility's Phone: 541 454-2643
U.S. EPA ID Number: ORD089452363

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. NA3082, Hazardous waste, liquid, n.o.s. (Tetrachloroethylene, Trichloroethylene) 9, PGIII	01	DM	150	P	F002		
	2. Non-RCRA, non-DOT (IDW Water OR353807)	01	DM	150	P	NONE		
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1)(1) Profile# OR347320 ERG#171 2) Profile# OR353807
WMWA-980532

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: [illegible] Signature: [illegible] Month 4 Day 11 Year 23

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: M Lontang Signature: [signature] Month 4 Day 11 Year 23
Transporter 2 Printed/Typed Name: [signature] Signature: [signature] Month 4 Day 11 Year 23

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☑ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. H132 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Morgan Wolf Signature: MWOLF Month 10 Day 10 Year 23

EPA Form 8700-22 (Rev. 12/17) Previous editions are obsolete. DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

TC

Please print or type. 495878 Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)

21. Generator ID Number	22. Page	23. Manifest Tracking Number
WAD988513248	2 of 2	023708834 JJK

24. Generator's Name: South park marina

25. Transporter 3 Company Name: UPR ~~CRF~~ and Walker — U.S. EPA ID Number: NED007092910

26. Transporter 4 Company Name: PCC — U.S. EPA ID Number: ~~ORD~~ 987173457

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes

32. Special Handling Instructions and Additional Information: Lowell — 980532

33. Transporter 3 Acknowledgment of Receipt of Materials
Printed/Typed Name: G. Altheimer — Signature: GRA — Month: 12 — Day: 23 — Year:

34. Transporter 4 Acknowledgment of Receipt of Materials
Printed/Typed Name — Signature — Month — Day — Year

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

GENERATOR / TRANSPORTER / DESIGNATED FACILITY

APPENDIX H

Sediment Analytical Data and Data Screening

APPENDIX H

TABLES

Table H.1. Available Sediment Data in and Near the Marina Basin

South Park Marina Site, Seattle, Washington

Year	Study	EIM Study Name	Location ID	Depth	Rationale for Exclusion from Refined Dataset
1990	Duwamish River Maintenance Dredge, Phase 1	DUWO&M90	DU9004XX	Subsurface	Excluded Due to Age
			DU9005XX		
1991	Duwamish River Maintenance Dredge, Phase 2	DUWO&M91	DU9124XX	Subsurface	Excluded Due to Age
			DU9125XX		
1991	South Park Marina Maintenance Dredge, Phase 1	SOPARK91	SPRK0101	Surface	Excluded Due to Age
			SPRK0302	Subsurface	Excluded Due to Age
1998	Lower Duwamish River - Site Inspection	LODRIV98	DR205	Surface	Excluded Due to Age
			DR227		
			DR228		
			DR234		
1998	South Park Bridge Replacement, DY11	SPBRP10	S1	Surface	Excluded Due to Age
2003	Lower Duwamish Source Control, T117 Early Action Area Non-Time Critical Removal Action (NTCRA)	G0800557	T117-SE-07-G	Surface	Excluded Due to Age
			T117-SE-08-G		
			T117-SE-10-G		
2004	Lower Duwamish Source Control, T117 Early Action Area Non-Time Critical Removal Action (NTCRA)	G0800557	T117-SE-71-SC	Subsurface	Dredged as Part of T-117 Early Action
			T117-SE-72-SC		
			T117-SE-73-G	Surface	Dredged as Part of T-117 Early Action
			T117-SE-74-G		
			T117-SE-76-G		
			T117-SE-77-G		
			T117-SE-78-G		
			T117-SE-84-G		
			T117-SE-85-G		
			T117-SE-86-G		
			T117-SE-89-G		
			T117-SE-89-SC	Subsurface	--
			T117-SE-91-G	Surface	Dredged as Part of T-117 Early Action
			T117-SE-91-SC	Subsurface	Dredged as Part of T-117 Early Action
			T117-SE-93-G	Surface	Dredged as Part of T-117 Early Action
			T117-SE-93-SC	Subsurface	Dredged as Part of T-117 Early Action
			T117-SE-COMP1-SC		
			T117-SE-COMP2and3-SC		
			T117-SE-COMP4-SC		
2005	LDW RI - Surface Sediment Round 2	LDWRRUN2	SS107	Surface	--
			SS108		
2007	Fish, Crab, and Clam Tissue Collection and Chemical Analyses in the Lower Duwamish Waterway in 2007	LDWFishCrabClam2007	C9_North	Surface	Superseded by LDW20-SS160
2008	Lower Duwamish Source Control, T117 Early Action Area Non-Time Critical Removal Action (NTCRA)	G0800557	T117-100-SG	Surface	Dredged as Part of T-117 Early Action
			T117-101-SG		
			T117-102-SG		
			T117-98-SG		
			T117-99-SG		
2008	SAIC - SPM Site Investigation	AODE16185	TRANS-A-SED	Surface	Dredged as Part of T-117 Early Action
			TRANS-B-SED		
2009	2009/2010 Lower Duwamish River surface sediment sampling results for dioxins and furans and other chemicals	LDWSedDioxin2010	LDW-SS536	Surface	Superseded by LDW21-SS555
			LDW-SS537		Superseded by SC-16
2011	Surface Sediment Sampling at Outfalls in the Lower Duwamish Waterway	LDWOFSS	LDW-SS2214-A	Surface	--
			LDW-SS2214-D		--
			LDW-SS2214-U		Superseded by LDW22-SS772
2012	Duwamish Waterway, East Waterway and West Waterway Subsurface Sediment Characterization	DUWSU12	LDW13	Subsurface	--
			LDW14		
2013	T-117 EAA Removal Action 2013-2014	T117CA14	PERIM-5-PRE	Surface	Superseded by PERIM-5-POST
			PERIM-6-PRE		Superseded by PERIM-6-POST
			PERIM-5-POST	Surface	--
			PERIM-6-POST		
			SG-07-R2		
			SG-08-R2		
			SG-09-R2		
2015	T-117 Outfall Pre-Construction Sediment Sampling	LDWT117OFPreConSed	T117-SG-A1-PreCon	Surface	Superseded by PostCon Samples
			T117-SG-A2-PreCon		
			T117-SG-A3-PreCon		
			T117-SG-B1-PreCon		
			T117-SG-B2-PreCon		
			T117-SG-B3-PreCon		
			T117-SG-C2-PreCon		
			T117-SG-C3-PreCon		
2015	T-117 Outfall Post-Construction Sediment Sampling	LDWT117OFPostConSed	T117-SG-A1-PostCon	Surface	Superseded by PreOp Samples
			T117-SG-A2-PostCon		
			T117-SG-A3-PostCon		
			T117-SG-B1-PostCon		
			T117-SG-B2-PostCon		
			T117-SG-B3-PostCon		
			T117-SG-C1-PostCon		
			T117-SG-C2-PostCon		
			T117-SG-C3-PostCon		
2016	T-117 Outfall Pre-Operational Sediment Sampling	LDWT117OFPreOpSed	T117-SG-A1-PreOp	Surface	--
			T117-SG-A2-PreOp		
			T117-SG-A3-PreOp		
			T117-SG-B1-PreOp		
			T117-SG-B2-PreOp		
			T117-SG-B3-PreOp		
			T117-SG-C1-PreOp		
			T117-SG-C2-PreOp		
			T117-SG-C3-PreOp		

Table H.1. Available Sediment Data in and Near the Marina Basin

South Park Marina Site, Seattle, Washington

Year	Study	EIM Study Name	Location ID	Depth	Rationale for Exclusion from Refined Dataset
2016	TIG - SPM Site Investigation	AODE16185	SC-01	Surface	--
			SC-02		
			SC-03		
			SC-04		
			SC-05		
			SC-06		
			SC-07		
			SC-08		
			SC-09		
			SC-10		
			SC-11		
			SC-12		
			SC-13		
			SC-14		
			SC-15		
			SC-16		
2018	Lower Duwamish Waterway Administrative Order on Consent (third amendment)	LDWAOC3	SS-130	Surface	--
			SS-Comp19		
2020	Pre-Design Investigation, Phase I	LDWAOC4	LDW20-IT151	Subsurface	--
			LDW20-IT200		
			LDW20-SC153		
			LDW20-SC154		
			LDW20-SC155		
			LDW20-SC156		
			LDW20-SC157		
			LDW20-SC158		
			LDW20-SC159		
			LDW20-SC160		
			LDW20-SC161		
			LDW20-SC162		
			LDW20-SC163		
			LDW20-SC164		
			LDW20-SC166		
			LDW20-SC167		
			LDW20-SC168		
			LDW20-SC169		
			LDW20-SC201		
			LDW20-SS151	Surface	--
			LDW20-SS153		
			LDW20-SS154		
			LDW20-SS155		
			LDW20-SS156		
			LDW20-SS157		
			LDW20-SS158		
			LDW20-SS159		
			LDW20-SS160		
			LDW20-SS162		
			LDW20-SS164		
			LDW20-SS166		
			LDW20-SS167		
			LDW20-SS168		
			LDW20-SS169		
2020	TIG - Split Samples During Pre-Design Investigation, Phase I	Data Not Posted to EIM(1)	LDW20-SC154	Subsurface	--
			LDW20-SC158		
			LDW20-SC159		
			LDW20-SC164		
			LDW20-SC167		
			LDW20-SC168		
			LDW20-SC169		
			LDW20-SS154	Surface	--
			LDW20-SS158		
			LDW20-SS159		
			LDW20-SS164		
			LDW20-SS167		
			LDW20-SS168		
			LDW20-SS169		
2021	Pre-Design Investigation, Phase II	LDWAOC4	LDW21-SC549	Subsurface	--
			LDW21-SC558		
			LDW21-SC560		
			LDW21-SC562		
			LDW21-SC563		
			LDW21-SC564		
			LDW21-SS555	Surface	--
			LDW21-SS556		
			LDW21-SS559		
2022	Pre-Design Investigation, Phase III	Data Not Yet Posted to EIM(2)	LDW22-SS771	Surface	--
			LDW22-SS772		
			LDW22-SS773		
			LDW22-SS774		

Notes:

Surface samples are those collected from 0 to 10 centimeters in depth.

Subsurface samples are any samples whose depth interval is greater than 10 centimeters in depth, including some samples collected from 0 to greater than 10 centimeters in depth; e.g., 0 to 45 or 0 to 60 centimeter depth intervals.

(1) - Split samples were collected by TIG during the 2020 Pre-Design Investigation, Phase I. Sample IDs are appended with "-TIG" to differentiate them from the parent sample names stored in EIM.

(2) - The 2022 sediment data collected for Upper Reach Pre-Design Investigation Phase 3 were not in EIM at the time of this memorandum; data were obtained directly from the Lower Duwamish Waterway Group.

Gray Shaded - Sample is not included as part of the refined dataset due to age of the sample, removal via dredging, and/or replacement by a more recent collocated sample.

Table H.2.A. Sediment Initial Screening Levels for LDW COCs

South Park Marina Site, Seattle, Washington

Analyte	Step #1: Initial Screening Levels – Surface and Subsurface Sediment					
	If Sample TOC is Within 0.5-3.5%			If Sample TOC is Outside 0.5-3.5%		
	Initial Sediment SL		Basis	Initial Sediment SL		Basis
Metals						
Arsenic	7	mg/kg	MIN ROD CUL (RAO 2)	7	mg/kg	MIN ROD CUL (RAO 2)
Cadmium	5.1	mg/kg	MIN ROD CUL (RAO 3)	5.1	mg/kg	MIN ROD CUL (RAO 3)
Chromium	260	mg/kg	MIN ROD CUL (RAO 3)	260	mg/kg	MIN ROD CUL (RAO 3)
Copper	390	mg/kg	MIN ROD CUL (RAO 3)	390	mg/kg	MIN ROD CUL (RAO 3)
Lead	450	mg/kg	MIN ROD CUL (RAO 3)	450	mg/kg	MIN ROD CUL (RAO 3)
Mercury	0.41	mg/kg	MIN ROD CUL (RAO 3)	0.41	mg/kg	MIN ROD CUL (RAO 3)
Silver	6.1	mg/kg	MIN ROD CUL (RAO 3)	6.1	mg/kg	MIN ROD CUL (RAO 3)
Zinc	410	mg/kg	MIN ROD CUL (RAO 3)	410	mg/kg	MIN ROD CUL (RAO 3)
Polychlorinated Biphenyls (PCBs)						
Total PCBs (ND = 0)	12	mg/kg-OC	MIN ROD CUL (RAO 3)	0.002	mg/kg	MIN ROD CUL (RAO 1)
	0.002	mg/kg	MIN ROD CUL (RAO 1)			
Dioxins/Furans						
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	2E-06	mg/kg	MIN ROD CUL (RAO 1)	2E-06	mg/kg	MIN ROD CUL (RAO 1)
Polycyclic Aromatic Hydrocarbons (PAHs)						
2-Methylnaphthalene	38	mg/kg-OC	MIN ROD CUL (RAO 3)	0.67	mg/kg	SCO-LAET
Acenaphthene	16	mg/kg-OC	MIN ROD CUL (RAO 3)	0.5	mg/kg	SCO-LAET
Anthracene	220	mg/kg-OC	MIN ROD CUL (RAO 3)	0.96	mg/kg	SCO-LAET
Benzo(g,h,i)perylene	31	mg/kg-OC	MIN ROD CUL (RAO 3)	0.67	mg/kg	SCO-LAET
Fluoranthene	160	mg/kg-OC	MIN ROD CUL (RAO 3)	1.7	mg/kg	SCO-LAET
Fluorene	23	mg/kg-OC	MIN ROD CUL (RAO 3)	0.54	mg/kg	SCO-LAET
Naphthalene	99	mg/kg-OC	MIN ROD CUL (RAO 3)	2.1	mg/kg	SCO-LAET
Phenanthrene	100	mg/kg-OC	MIN ROD CUL (RAO 3)	1.5	mg/kg	SCO-LAET
Pyrene	1000	mg/kg-OC	MIN ROD CUL (RAO 3)	2.6	mg/kg	SCO-LAET
Benz(a)anthracene	110	mg/kg-OC	MIN ROD CUL (RAO 3)	1.3	mg/kg	SCO-LAET
Benzo(a)pyrene	99	mg/kg-OC	MIN ROD CUL (RAO 3)	1.6	mg/kg	SCO-LAET
Chrysene	110	mg/kg-OC	MIN ROD CUL (RAO 3)	1.4	mg/kg	SCO-LAET
Dibenzo(a,h)anthracene	12	mg/kg-OC	MIN ROD CUL (RAO 3)	0.23	mg/kg	SCO-LAET
Indeno(1,2,3-cd)pyrene	34	mg/kg-OC	MIN ROD CUL (RAO 3)	0.6	mg/kg	SCO-LAET
Total Benzofluoranthenes	230	mg/kg-OC	MIN ROD CUL (RAO 3)	3.2	mg/kg	SCO-LAET
Total HPAHs (ND = 1/2 RDL)	960	mg/kg-OC	MIN ROD CUL (RAO 3)	12	mg/kg	SCO-LAET
Total LPAHs (ND = 1/2 RDL)	370	mg/kg-OC	MIN ROD CUL (RAO 3)	5.2	mg/kg	SCO-LAET
Total cPAHs TEQ (ND = 1/2 RDL)	0.59	mg/kg	MIN ROD CUL (RAO 2)	0.59	mg/kg	MIN ROD CUL (RAO 2)
Other Semivolatile Organic Compounds (SVOCs)						
2,4-Dimethylphenol	0.029	mg/kg	MIN ROD CUL (RAO 3)	0.029	mg/kg	MIN ROD CUL (RAO 3)
4-Methylphenol	0.67	mg/kg	MIN ROD CUL (RAO 3)	0.67	mg/kg	MIN ROD CUL (RAO 3)
Benzoic acid	0.65	mg/kg	MIN ROD CUL (RAO 3)	0.65	mg/kg	MIN ROD CUL (RAO 3)
Benzyl alcohol	0.057	mg/kg	MIN ROD CUL (RAO 3)	0.057	mg/kg	MIN ROD CUL (RAO 3)
Benzyl butyl phthalate	4.9	mg/kg-OC	MIN ROD CUL (RAO 3)	0.063	mg/kg	SCO-LAET
Bis(2-ethylhexyl) phthalate	47	mg/kg-OC	MIN ROD CUL (RAO 3)	1.3	mg/kg	SCO-LAET
Dibenzofuran	15	mg/kg-OC	MIN ROD CUL (RAO 3)	0.54	mg/kg	SCO-LAET
Dimethyl phthalate	53	mg/kg-OC	MIN ROD CUL (RAO 3)	0.071	mg/kg	SCO-LAET
Hexachlorobenzene	0.38	mg/kg-OC	MIN ROD CUL (RAO 3)	0.022	mg/kg	SCO-LAET
N-Nitrosodiphenylamine	11	mg/kg-OC	MIN ROD CUL (RAO 3)	0.028	mg/kg	SCO-LAET
Pentachlorophenol	0.36	mg/kg	MIN ROD CUL (RAO 3)	0.36	mg/kg	MIN ROD CUL (RAO 3)
Phenol	0.42	mg/kg	MIN ROD CUL (RAO 3)	0.42	mg/kg	MIN ROD CUL (RAO 3)
Volatile Organic Compounds (VOCs)						
1,2,4-Trichlorobenzene	0.81	mg/kg-OC	MIN ROD CUL (RAO 3)	0.031	mg/kg	SCO-LAET
1,2-Dichlorobenzene	2.3	mg/kg-OC	MIN ROD CUL (RAO 3)	0.035	mg/kg	SCO-LAET
1,4-Dichlorobenzene	3.1	mg/kg-OC	MIN ROD CUL (RAO 3)	0.11	mg/kg	SCO-LAET

Notes:

SL - screening level

mg/kg - milligrams per kilogram, dry weight

mg/kg-OC - milligrams per kilogram, normalized for organic carbon content (OC normalized)

% - percent

MIN ROD CUL - Most stringent cleanup level from LDW Record of Decision (ROD; EPA, 2014). RAO = Remedial Action Objective: RAO 1 = human consumption of seafood; RAO 2 = human direct contact; RAO 3 = benthic invertebrates; RAO 4 = ecological.

SCO-LAET - SMS Lower Tier SCO for Protection of Benthic Organisms (Lowest Apparent Effects Threshold [Table 8-1 in SCUM; Ecology, 2021]).

SMS Lower Tier SCO - Sediment Management Standards Lower Tier Sediment Cleanup Objective

ND = 1/2 RDL - Calculated using one-half the reporting limit for nondetected components

ND = 0 - Calculated using zero for nondetected components

TEQ - toxic equivalency

LPAHs (low molecular weight polycyclic aromatic hydrocarbons): naphthalene, acenaphthylene, acenaphethene, fluorene, phenanthrene, and anthracene.

HPAHs (high molecular weight polycyclic aromatic hydrocarbons): fluoranthene, pyrene, benz(a)anthracene, chrysene, total benzofluoranthenes, benzo(a)pyrene, indeno(1,2,3,-c,d)pyrene, dibenzo(a,h)anthracene, and benzo(g,h,i)perylene.

cPAHs (carcinogenic polycyclic aromatic hydrocarbons): benzo(a)pyrene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene.

TOC - total organic carbon

Table H.2.B. Sediment Initial Screening Levels for Non-LDW COCs

South Park Marina Site, Seattle, Washington

	Step #1: Initial Screening Levels					
	Surface and Subsurface Sediment					
	If Sample TOC is Within 0.5-3.5%			If Sample TOC is Outside 0.5-3.5%		
Analyte	Initial Sediment SL		Basis	Initial Sediment SL		Basis
Metals						
Aluminum	NA			NA		
Antimony	NA			NA		
Barium	NA			NA		
Beryllium	NA			NA		
Calcium	NA			NA		
Cobalt	NA			NA		
Iron	NA			NA		
Magnesium	NA			NA		
Manganese	NA			NA		
Molybdenum	NA			NA		
Nickel	NA			NA		
Potassium	NA			NA		
Selenium	NA			NA		
Sodium	NA			NA		
Thallium	NA			NA		
Tin	NA			NA		
Vanadium	NA			NA		
Butyl Tins						
Monobutyltin	NA			NA		
Dibutyltin	NA			NA		
Tributyltin	0.0021	mg/kg	SCO-HCS	0.0021	mg/kg	SCO-HCS
Tetrabutyltin	NA			NA		
Polycyclic Aromatic Hydrocarbons (PAHs)						
1-Methylnaphthalene	NA			NA		
Acenaphthylene	66	mg/kg-OC	SCO-Benthic	1.3	mg/kg	SCO-LAET
Other Semivolatile Organic Compounds (SVOCs)						
2,4,5-Trichlorophenol	NA			NA		
2,4,6-Trichlorophenol	NA			NA		
2,4-Dichlorophenol	NA			NA		
2,4-Dinitrophenol	NA			NA		
2,4-Dinitrotoluene	NA			NA		
2,6-Dinitrotoluene	NA			NA		
2-Chloronaphthalene	NA			NA		
2-Chlorophenol	NA			NA		
2-Methylphenol	0.063	mg/kg	SCO-LAET	0.063	mg/kg	SCO-LAET
2-Nitroaniline	NA			NA		
2-Nitrophenol	NA			NA		
3,3'-Dichlorobenzidine	NA			NA		
3-Nitroaniline	NA			NA		
4,6-Dinitro-2-methylphenol	NA			NA		
4-Bromophenyl phenyl ether	NA			NA		
4-Chloro-3-methylphenol	NA			NA		
4-Chloroaniline	NA			NA		
4-Chlorophenyl phenyl ether	NA			NA		
4-Nitroaniline	NA			NA		
4-Nitrophenol	NA			NA		
Aniline	NA			NA		
Bis(2-chloro-1-methylethyl) ether	NA			NA		
Bis(2-chloroethoxy)methane	NA			NA		
Bis(2-chloroethyl) ether	NA			NA		
bis(2-Chloroisopropyl)ether	NA			NA		
Carbazole	NA			NA		
Diethyl phthalate	61	mg/kg-OC	SCO-Benthic	0.2	mg/kg	SCO-LAET
Di-n-butyl phthalate	220	mg/kg-OC	SCO-Benthic	1.4	mg/kg	SCO-LAET
Di-n-octyl phthalate	58	mg/kg-OC	SCO-Benthic	6.2	mg/kg	SCO-LAET
Hexachlorobutadiene	3.9	mg/kg-OC	SCO-Benthic	0.011	mg/kg	SCO-LAET
Hexachlorocyclopentadiene	NA			NA		
Hexachloroethane	NA			NA		
Isophorone	NA			NA		
Nitrobenzene	NA			NA		
N-Nitrosodimethylamine	NA			NA		
N-Nitroso-di-n-propylamine	NA			NA		
Volatile Organic Compounds (VOCs)						
1,3-Dichlorobenzene	NA			NA		
Ethylbenzene	NA			NA		
Tetrachloroethene (PCE)	NA			NA		
Total Xylenes	NA			NA		
Trichloroethene (TCE)	NA			NA		
Pesticides						
2,4'-DDD	NA			NA		
2,4'-DDE	NA			NA		
2,4'-DDT	NA			NA		
4,4'-DDD	NA			NA		
4,4'-DDE	NA			NA		
4,4'-DDT	0.0001	mg/kg	SCO-HCS	0.0001	mg/kg	SCO-HCS
Aldrin	0.0001	mg/kg	SCO-HCS	0.0001	mg/kg	SCO-HCS
Alpha-BHC	NA			NA		
Beta-BHC	NA			NA		
Chlordane	NA			NA		
cis-Chlordane	0.0001	mg/kg	SCO-HCS	0.0001	mg/kg	SCO-HCS
cis-Nonachlor	NA			NA		
Delta-BHC	NA			NA		
Dieldrin	0.0001	mg/kg	SCO-HCS	0.0001	mg/kg	SCO-HCS
Endosulfan I	NA			NA		
Endosulfan II	NA			NA		
Endosulfan Sulfate	NA			NA		
Endrin	NA			NA		
Endrin Aldehyde	NA			NA		
Endrin ketone	NA			NA		
Heptachlor	0.0001	mg/kg	SCO-HCS	0.0001	mg/kg	SCO-HCS
Heptachlor Epoxide	NA			NA		
Lindane	NA			NA		
Methoxychlor	NA			NA		
Mirex	NA			NA		
Oxychlordane	NA			NA		
Toxaphene	NA			NA		
trans-Chlordane	0.0001	mg/kg	SCO-HCS	0.0001	mg/kg	SCO-HCS
trans-Nonachlor	NA			NA		

Notes:

SL - screening level
TOC - total organic carbon
mg/kg - milligrams per kilogram, dry weight
mg/kg-OC - milligrams per kilogram, normalized for organic carbon content (OC normalized)
% - percent
NA - Initial screening level not available
SCO-HCS - SMS Lower Tier Sediment Cleanup Objective For Human Consumption of Seafood (based on the PQL).
SCO-Benthic - SMS Lower Tier SCO for Protection of Benthic Organisms (Table 8-1 in SCUM; Ecology, 2021).
SCO-LAET - SMS Lower Tier SCO for Protection of Benthic Organisms (Lowest Apparent Effects Threshold [Table 8-1 in SCUM; Ecology, 2021]).
SMS Lower Tier SCO - Sediment Management Standards Lower Tier Sediment Cleanup Objective
PQL - practical quantitation limit
SCUM - Sediment Cleanup Users Manual

Table H.3.A. Surface Sediment Analytical Data - Full Dataset - LDW COCs

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Gray - Sample not included as part of the refined dataset.
Pink Shaded - Outside accepted total organic carbon (TOC) range.
Green Shaded - Sample TOC outside range for associated screening level (SL).
Light Blue Shaded - Nondetected result (reporting limit) exceeded Initial SL.
Purple Shaded - Detected result exceeded Initial SL.

Location			***C9_North***	***DR205***	***DR227***	***DR228***	***DR234***	**LDW20-SS151**	**LDW20-SS153**	**LDW20-SS154**	**LDW20-SS154**
Date			*08/25/07*	*08/27/98*	*08/27/98*	*09/01/98*	*08/19/98*	06/12/20	06/30/20	06/05/2020	06/05/20
Sample			*LDW-07-C9-S*	*SD-205-0000*	*SD-227-0000*	*SD-228-0000*	*SD-234-0000*	LDW20-SS151	LDW20-SS153	LDW20-SS154	LDW20-SS154-TIG
Depth			*0 - 10 cm*	*0 - 10 cm*	*0 - 10 cm*	*0 - 10 cm*	*0 - 10 cm*	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm
Analyte	**Unit**	**Initial SL**									
Metals											
Arsenic	mg/kg	7	***5.62***	***9.6***	***7.9***	***11***	***7.1***	**10.2**	--	**11.3**	--
Cadmium	mg/kg	5.1	--	***0.26***	***0.21***	*0.3 UJ*	***0.4***	**0.13 J**	--	**0.17 J**	--
Chromium	mg/kg	260	--	***30***	***27***	***31***	***20***	**26.8**	--	**24.2**	--
Copper	mg/kg	390	--	***40***	***37***	***47***	***36***	**47.2**	--	**42.6**	--
Lead	mg/kg	450	--	***15***	***13***	***24 J***	***16***	**17.4**	--	**13.3**	--
Mercury	mg/kg	0.41	--	***0.14***	***0.09***	***0.15***	***0.1***	**0.122**	--	**0.152 J**	--
Zinc	mg/kg	410	--	***81***	***74***	***100***	***77***	**91.7 J**	--	**83.4**	--
Polychlorinated Biphenyl (PCB) Aroclors											
Total PCB Aroclors (ND = 0)	mg/kg	0.002	--	***0.035***	***0.025***	***0.161 J***	***0.054 J***	**0.0707 J**	**0.0399 J**	**0.039 J**	--
Polychlorinated Biphenyl (PCB) Aroclors - OC Normalized											
Total PCB Aroclors (ND = 0) (OC normalized), within TOC of 0.5-3.5%	mg/kg-OC	12	--	***1.59***	***1.25***	***6.44 J***	***3 J***	**2.24 J**	**4.64 J**	**1.12 J**	--
Polchlorinated Biphenyl (PCB) Congeners											
Total PCB Congeners (ND = 0)	mg/kg	0.002	--	--	--	--	--	--	--	--	**0.000622**
Polchlorinated Biphenyl (PCB) Congeners - OC Normalized											
Total PCB Congeners (ND = 0) (OC normalized), within TOC of 0.5-3.5%	mg/kg-OC	12	--	--	--	--	--	--	--	--	**0.02**
Dioxins/Furans											
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	2E-06	--	--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)											
2-Methylnaphthalene	mg/kg	38	--	*0.02 U*	*0.02 U*	*0.02 U*	*0.02 U*	**0.0086 J**	--	0.0199 U	--
Acenaphthene	mg/kg	16	--	*0.02 U*	*0.02 U*	***0.03***	*0.02 U*	0.0199 J	--	0.0199 U	--
Anthracene	mg/kg	220	--	*0.02 U*	*0.02 U*	***0.04***	***0.02***	**0.0076 J**	--	0.0199 UJ	--
Benzo(g,h,i)perylene	mg/kg	31	--	***0.04***	***0.05***	***0.11***	***0.08***	**0.0312**	--	**0.0205**	--
Fluoranthene	mg/kg	160	--	***0.13***	***0.15***	***0.52***	***0.24***	**0.091**	--	**0.139**	--
Fluorene	mg/kg	23	--	*0.02 U*	*0.02 U*	***0.04***	*0.02 U*	0.0199 U	--	0.0199 U	--
Naphthalene	mg/kg	99	--	*0.02 U*	*0.02 U*	*0.02 U*	*0.02 U*	**0.0067 J**	--	0.0199 U	--
Phenanthrene	mg/kg	100	--	***0.06***	***0.05***	***0.24***	***0.09***	**0.035**	--	**0.0817**	--
Pyrene	mg/kg	1000	--	***0.11***	***0.17***	***0.45***	***0.22***	**0.0773**	--	**0.0929**	--
Benz(a)anthracene	mg/kg	110	--	***0.05***	***0.06***	***0.16***	***0.09***	**0.0325**	--	**0.0195 J**	--
Benzo(a)pyrene	mg/kg	99	--	***0.05***	***0.05***	***0.14***	***0.11***	**0.0385**	--	**0.0216 J**	--
Chrysene	mg/kg	110	--	***0.1***	***0.09***	***0.23***	***0.13***	**0.0604**	--	**0.0528**	--
Dibenzo(a,h)anthracene	mg/kg	12	--	*0.02 U*	*0.02 U*	***0.02***	***0.02***	**0.0078 J**	--	0.0199 U	--
Indeno(1,2,3-cd)pyrene	mg/kg	34	--	***0.05***	***0.05***	***0.11***	***0.1***	**0.0256**	--	**0.0172 J**	--
Total Benzofluoranthenes	mg/kg	230	--	--	--	--	--	--	--	--	--
Total HPAHs (ND = 1/2 RDL)	mg/kg	960	--	***0.67***	***0.79***	***2.08***	***1.23***	**0.458 J**	--	**0.456 J**	--
Total LPAHs (ND = 1/2 RDL)	mg/kg	370	--	***0.11***	***0.1***	***0.37***	***0.15***	**0.0792 J**	--	**0.131**	--
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	0.59	--	***0.075***	***0.079***	***0.205***	***0.156***	**0.0551 J**	--	**0.0381 J**	--
Polycyclic Aromatic Hydrocarbons (PAHs) - OC Normalized											
2-Methylnaphthalene (OC normalized)	mg/kg-OC	38	--	*0.91 U*	*1 U*	*0.80 U*	*1.1 U*	**0.273 J**	--	0.57 U	--
Acenaphthene (OC normalized)	mg/kg-OC	16	--	*0.91 U*	*1 U*	***1.2***	*1.1 U*	0.632 J	--	0.57 U	--
Anthracene (OC normalized)	mg/kg-OC	220	--	*0.91 U*	*1 U*	***1.6***	***1.1***	**0.241 J**	--	0.573 UJ	--
Benzo(g,h,i)perylene (OC normalized)	mg/kg-OC	31	--	***1.8***	***2.5***	***4.4***	***4.4***	**0.99**	--	**0.59**	--
Fluoranthene (OC normalized)	mg/kg-OC	160	--	***5.9***	***7.5***	***21***	***13***	**2.89**	--	**4.01**	--
Fluorene (OC normalized)	mg/kg-OC	23	--	*0.91 U*	*1 U*	***1.6***	*1.1 U*	0.632 U	--	0.57 U	--
Indeno(1,2,3-cd)pyrene (OC normalized)	mg/kg-OC	34	--	***2.3***	***2.5***	***4.4***	***5.6***	**0.813**	--	**0.50 J**	--
Naphthalene (OC normalized)	mg/kg-OC	99	--	*0.91 U*	*1 U*	*0.80 U*	*1.1 U*	**0.213 J**	--	0.57 U	--
Phenanthrene (OC normalized)	mg/kg-OC	100	--	***2.7***	***2.5***	***9.6***	***5***	**1.11**	--	**2.35**	--
Pyrene (OC normalized)	mg/kg-OC	1000	--	***5***	***8.5***	***18***	***12***	**2.45**	--	**2.68**	--
Benz(a)anthracene (OC normalized)	mg/kg-OC	110	--	***2.3***	***3***	***6.4***	***5***	**1.03**	--	**0.56 J**	--
Benzo(a)pyrene (OC normalized)	mg/kg-OC	99	--	***2.3***	***2.5***	***5.6***	***6.1***	**1.22**	--	**0.62 J**	--
Chrysene (OC normalized)	mg/kg-OC	110	--	***4.5***	***4.5***	***9.2***	***7.2***	**1.92**	--	**1.52**	--
Dibenzo(a,h)anthracene (OC normalized)	mg/kg-OC	12	--	*0.91 U*	*1 U*	***0.8***	***1.1***	**0.248 J**	--	0.57 U	--
Total Benzofluoranthenes (OC normalized)	mg/kg-OC	230	--	--	--	--	--	--	--	--	--
Total HPAHs (ND = 1/2 RDL) (OC normalized)	mg/kg-OC	960	--	***30***	***40***	***83***	***68***	**14.5 J**	--	**13.1 J**	--
Total LPAHs (ND = 1/2 RDL) (OC normalized)	mg/kg-OC	370	--	***5.0***	***5.0***	***15***	***8.3***	**2.51 J**	--	**3.78**	--
Other Semivolatile Organic Compounds (SVOCs)											
2,4-Dimethylphenol	mg/kg	0.029	--	*0.02 U*	*0.02 U*	*0.02 U*	*0.02 U*	0.0199 J	--	0.0199 UJ	--
4-Methylphenol	mg/kg	0.67	--	--	--	--	--	0.0199 U	--	0.0199 U	--
Benzoic Acid	mg/kg	0.65	--	*0.2 U*	*0.2 U*	*0.2 U*	*0.2 U*	**0.0856 J**	--	**0.0875 J**	--
Benzyl Alcohol	mg/kg	0.057	--	*0.05 U*	*0.05 U*	*0.05 U*	*0.05 U*	**0.0338**	--	**0.044**	--
Benzyl butyl phthalate	mg/kg	4.9	--	*0.02 U*	***0.02***	***0.03***	*0.02 U*	**0.0125 J**	--	**0.0114 J**	--
Bis(2-ethylhexyl) phthalate	mg/kg	47	--	***0.15***	***0.14***	***0.41***	*0.24 U*	**0.0866 J**	--	**0.0448 J**	--
Dibenzofuran	mg/kg	15	--	*0.02 U*	*0.02 U*	***0.03***	*0.02 U*	**0.0051 J**	--	0.0199 U	--
Dimethyl phthalate	mg/kg	53	--	*0.02 U*	*0.02 U*	***0.02***	*0.02 U*	0.0199 U	--	0.0199 U	--
Hexachlorobenzene	mg/kg	0.38	--	*0.02 U*	*0.02 U*	*0.02 U*	*0.02 U*	0.0005 U	--	**0.00093**	--
N-Nitrosodiphenylamine	mg/kg	11	--	*0.04 U*	*0.04 U*	*0.04 U*	*0.04 U*	**0.0019 J**	--	0.005 UJ	--
Pentachlorophenol	mg/kg	0.355	--	*0.1 U*	*0.1 U*	*0.1 U*	*0.1 U*	0.0199 UJ	--	0.0199 UJ	--
Phenol	mg/kg	0.42	--	***0.25***	***0.41***	*0.02 U*	***0.07***	**0.0107 J**	--	0.0199 U	--
Other Semivolatile Organic Compounds (SVOCs) - OC Normalized											
Benzyl butyl phthalate (OC normalized)	mg/kg-OC	4.9	--	*0.91 U*	***1***	***1.2***	*1.1 U*	**0.397 J**	--	**0.329 J**	--
Bis(2-ethylhexyl) phthalate (OC normalized)	mg/kg-OC	47	--	***6.8***	***7***	***16***	*13 U*	**2.75 J**	--	**1.29 J**	--
Dimethyl phthalate (OC normalized)	mg/kg-OC	53	--	*0.91 U*	*1 U*	***0.8***	*1.1 U*	0.632 U	--	0.57 U	--
Hexachlorobenzene (OC normalized)	mg/kg-OC	0.38	--	*0.91 U*	*1 U*	*0.80 U*	*1.1 U*	0.0159 U	--	**0.03**	--
N-Nitrosodiphenylamine (OC normalized)	mg/kg-OC	11	--	*1.8 U*	*2.0 U*	*1.6 U*	*2.2 U*	**0.0603 J**	--	0.14 UJ	--
Volatile Organic Compounds (VOCs)											
1,2,4-Trichlorobenzene	mg/kg	0.81	--	*0.02 U*	*0.02 U*	*0.02 U*	*0.02 U*	0.005 U	--	0.005 U	--
1,2-Dichlorobenzene	mg/kg	2.3	--	*0.02 U*	*0.02 U*	*0.02 U*	*0.02 U*	0.005 U	--	0.005 UJ	--
1,4-Dichlorobenzene	mg/kg	3.1	--	*0.02 U*	*0.02 U*	*0.02 U*	*0.02 U*	0.005 U	--	0.005 UJ	--
Volatile Organic Compounds (VOCs) - OC Normalized											
1,2,4-Trichlorobenzene (OC normalized)	mg/kg-OC	0.81	--	*0.91 U*	*1 U*	*0.80 U*	*1.1 U*	0.159 U	--	0.144 U	--
1,2-Dichlorobenzene (OC normalized)	mg/kg-OC	2.3	--	*0.91 U*	*1 U*	*0.80 U*	*1.1 U*	0.159 U	--	0.144 UJ	--
1,4-Dichlorobenzene (OC normalized)	mg/kg-OC	3.1	--	*0.91 U*	*1 U*	*0.80 U*	*1.1 U*	0.159 U	--	0.144 UJ	--
Conventionals											
Total Organic Carbon	%		--	***2.2***	***2***	***2.5***	***1.8***	**3.15**	**0.86**	**3.47**	--

Table H.3.A. Surface Sediment Analytical Data - Full Dataset - LDW COCs

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Gray - Sample not included as part of the refined dataset.
Pink Shaded - Outside accepted total organic carbon (TOC) range.
Green Shaded - Sample TOC outside range for associated screening level (SL).
Light Blue Shaded - Nondetected result (reporting limit) exceeded Initial SL.
Purple Shaded - Detected result exceeded Initial SL.

		Location	**LDW20-SS155**	**LDW20-SS156**	**LDW20-SS157**	**LDW20-SS158**	**LDW20-SS158**	**LDW20-SS159**	**LDW20-SS159**	**LDW20-SS160**	**LDW20-SS162**
		Date	06/12/20	06/12/20	06/30/20	06/05/20	06/05/20	06/05/20	06/05/20	06/16/20	06/12/20
		Sample	LDW20-SS155	LDW20-SS156	LDW20-SS157	LDW20-SS158	LDW20-SS158-TIG	LDW20-SS159	LDW20-SS159-TIG	LDW20-SS160	LDW20-SS162
		Depth	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm
Analyte	**Unit**	**Initial SL**									
Metals											
Arsenic	mg/kg	7	**5.56**	**6.55**	--	**11.8**	--	**8.32**	--	**6.91**	**8.37**
Cadmium	mg/kg	5.1	**0.17**	**0.11 J**	--	**0.22 J**	--	**0.08 J**	--	**0.14 J**	**0.08 J**
Chromium	mg/kg	260	**18.6**	**17.4**	--	**25.3**	--	**18.4**	--	**18.5**	**19**
Copper	mg/kg	390	**24.4**	**18.1**	--	**41.5**	--	**29.6**	--	**25.1**	**20.3**
Lead	mg/kg	450	**10.5**	**6.82**	--	**13.1**	--	**8.71**	--	**10.6**	**7.98**
Mercury	mg/kg	0.41	**0.0873**	**0.462**	--	**0.217 J**	--	**0.0691 J**	--	**0.0499**	**0.0408**
Zinc	mg/kg	410	**58.8 J**	**51.6 J**	--	**83.5**	--	**53.3**	--	**59.8**	**58.4 J**
Polychlorinated Biphenyl (PCB) Aroclors											
Total PCB Aroclors (ND = 0)	mg/kg	0.002	**0.314**	**0.0225 J**	**0.0452 J**	**0.0392 J**	--	**0.0416 J**	--	**0.0432 J**	**0.0338 J**
Polychlorinated Biphenyl (PCB) Aroclors - OC Normalized											
Total PCB Aroclors (ND = 0) (OC normalized), within TOC of 0.5-3.5%	mg/kg-OC	12	**27.6**	**3 J**	**7.66 J**	**1.38 J**	--	**3.28 J**	--	**4.7 J**	**3.1 J**
Polchlorinated Biphenyl (PCB) Congeners											
Total PCB Congeners (ND = 0)	mg/kg	0.002	--	--	--	--	**0.0277**	--	**0.0282**	--	--
Polchlorinated Biphenyl (PCB) Congeners - OC Normalized											
Total PCB Congeners (ND = 0) (OC normalized), within TOC of 0.5-3.5%	mg/kg-OC	12	--	--	--	--	**0.97**	--	**2.22**	--	--
Dioxins/Furans											
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	2E-06	--	--	--	--	--	**1.8E-06 J**	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)											
2-Methylnaphthalene	mg/kg	38	**0.0086 J**	**0.0068 J**	--	0.02 U	--	0.02 U	--	**0.0067 J**	0.0196 U
Acenaphthene	mg/kg	16	0.0195 J	0.0197 J	--	0.02 U	--	0.02 U	--	0.02 J	0.0196 J
Anthracene	mg/kg	220	**0.0123 J**	0.0197 J	--	0.02 UJ	--	0.02 UJ	--	**0.0131 J**	0.0196 J
Benzo(g,h,i)perylene	mg/kg	31	**0.0243**	**0.0096 J**	--	**0.0287**	--	**0.0268**	--	**0.0236**	**0.0097 J**
Fluoranthene	mg/kg	160	**0.0771**	**0.018 J**	--	**0.0873**	--	**0.0453**	--	**0.0912**	**0.0228**
Fluorene	mg/kg	23	**0.006 J**	0.0197 U	--	0.02 U	--	0.02 U	--	**0.0065 J**	0.0196 U
Naphthalene	mg/kg	99	**0.0061 J**	0.0197 U	--	0.02 U	--	0.02 U	--	**0.0055 J**	0.0196 U
Phenanthrene	mg/kg	100	**0.0461**	**0.0172 J**	--	**0.0507**	--	**0.0214**	--	**0.0325**	**0.0133 J**
Pyrene	mg/kg	1000	**0.0903**	**0.0176 J**	--	**0.0786**	--	**0.042**	--	**0.081**	**0.0218**
Benz(a)anthracene	mg/kg	110	**0.0402**	**0.0079 J**	--	**0.0299**	--	**0.0236**	--	**0.0467**	**0.0095 J**
Benzo(a)pyrene	mg/kg	99	**0.043**	**0.008 J**	--	**0.032 J**	--	**0.0267 J**	--	**0.0406**	**0.0114 J**
Chrysene	mg/kg	110	**0.0623**	**0.0118 J**	--	**0.0582**	--	**0.0432**	--	**0.05**	**0.019 J**
Dibenzo(a,h)anthracene	mg/kg	12	**0.0096 J**	0.0197 U	--	0.02 U	--	0.02 U	--	**0.0081 J**	0.0196 U
Indeno(1,2,3-cd)pyrene	mg/kg	34	**0.0275**	**0.006 J**	--	**0.023**	--	**0.0215**	--	**0.0202**	**0.0083 J**
Total Benzofluoranthenes	mg/kg	230	--	--	--	--	--	--	--	--	--
Total HPAHs (ND = 1/2 RDL)	mg/kg	960	**0.487 J**	**0.111 J**	--	**0.436 J**	--	**0.318 J**	--	**0.451 J**	**0.142 J**
Total LPAHs (ND = 1/2 RDL)	mg/kg	370	**0.09 J**	**0.0665 J**	--	**0.101**	--	**0.0714**	--	**0.0776 J**	**0.0623 J**
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	0.59	**0.0627 J**	**0.0127 J**	--	**0.0507 J**	--	**0.0435 J**	--	**0.0575 J**	**0.0173 J**
Polycyclic Aromatic Hydrocarbons (PAHs) - OC Normalized											
2-Methylnaphthalene (OC normalized)	mg/kg-OC	38	**0.754 J**	**0.907 J**	--	0.70 U	--	1.57 U	--	**0.728 J**	1.8 U
Acenaphthene (OC normalized)	mg/kg-OC	16	1.71 J	2.63 J	--	0.70 U	--	1.57 U	--	2.17 J	1.8 J
Anthracene (OC normalized)	mg/kg-OC	220	**1.08 J**	2.63 J	--	0.702 UJ	--	1.57 UJ	--	**1.42 J**	1.8 J
Benzo(g,h,i)perylene (OC normalized)	mg/kg-OC	31	**2.13**	**1.28 J**	--	**1.01**	--	**2.11**	--	**2.57**	**0.89 J**
Fluoranthene (OC normalized)	mg/kg-OC	160	**6.76**	**2.4 J**	--	**3.06**	--	**3.57**	--	**9.91**	**2.09**
Fluorene (OC normalized)	mg/kg-OC	23	**0.526 J**	2.63 U	--	0.70 U	--	1.57 U	--	**0.707 J**	1.8 U
Indeno(1,2,3-cd)pyrene (OC normalized)	mg/kg-OC	34	**2.41**	**0.8 J**	--	**0.81**	--	**1.69**	--	**2.2**	**0.761 J**
Naphthalene (OC normalized)	mg/kg-OC	99	**0.535 J**	2.63 U	--	0.70 U	--	1.57 U	--	**0.598 J**	1.8 U
Phenanthrene (OC normalized)	mg/kg-OC	100	**4.04**	**2.29 J**	--	**1.78**	--	**1.69**	--	**3.53**	**1.22 J**
Pyrene (OC normalized)	mg/kg-OC	1000	**7.92**	**2.35 J**	--	**2.76**	--	**3.31**	--	**8.8**	**2**
Benz(a)anthracene (OC normalized)	mg/kg-OC	110	**3.53**	**1.05 J**	--	**1.05**	--	**1.86**	--	**5.08**	**0.872 J**
Benzo(a)pyrene (OC normalized)	mg/kg-OC	99	**3.77**	**1.07 J**	--	**1.12 J**	--	**2.10 J**	--	**4.41**	**1.05 J**
Chrysene (OC normalized)	mg/kg-OC	110	**5.46**	**1.57 J**	--	**2.04**	--	**3.40**	--	**5.43**	**1.74 J**
Dibenzo(a,h)anthracene (OC normalized)	mg/kg-OC	12	**0.842 J**	2.63 U	--	0.70 U	--	1.57 U	--	**0.88 J**	1.8 U
Total Benzofluoranthenes (OC normalized)	mg/kg-OC	230	--	--	--	--	--	--	--	--	--
Total HPAHs (ND = 1/2 RDL) (OC normalized)	mg/kg-OC	960	**42.7 J**	**14.8 J**	--	**15.3 J**	--	**25 J**	--	**49 J**	**13 J**
Total LPAHs (ND = 1/2 RDL) (OC normalized)	mg/kg-OC	370	**7.89 J**	**8.87 J**	--	**3.54**	--	**5.62**	--	**8.43 J**	**5.72 J**
Other Semivolatile Organic Compounds (SVOCs)											
2,4-Dimethylphenol	mg/kg	0.029	0.0195 J	0.0197 J	--	0.02 UJ	--	0.02 UJ	--	0.02 J	0.0196 J
4-Methylphenol	mg/kg	0.67	0.0195 U	0.0197 U	--	0.02 U	--	0.02 U	--	0.02 U	0.0196 U
Benzoic Acid	mg/kg	0.65	**0.0296 J**	**0.0192 J**	--	**0.126**	--	**0.114**	--	**0.042 J**	**0.0185 J**
Benzyl Alcohol	mg/kg	0.057	**0.0129 J**	**0.0049 J**	--	**0.0646**	--	**0.0166 J**	--	**0.0103 J**	**0.0092 J**
Benzyl butyl phthalate	mg/kg	4.9	**0.0163 J**	0.0197 U	--	0.02 U	--	**0.0108 J**	--	0.02 U	0.0196 U
Bis(2-ethylhexyl) phthalate	mg/kg	47	**0.0792 J**	0.0492 J	--	**0.0864 J**	--	**0.0637 J**	--	**0.0478 J**	**0.0285 J**
Dibenzofuran	mg/kg	15	**0.0056 J**	**0.0046 J**	--	0.02 U	--	0.02 U	--	**0.0058 J**	0.0196 U
Dimethyl phthalate	mg/kg	53	0.0195 U	0.0197 U	--	0.02 U	--	0.02 U	--	**0.007 J**	0.0196 U
Hexachlorobenzene	mg/kg	0.38	0.0005 U	0.0005 U	--	0.0005 U	--	0.0005 U	--	0.00049 U	0.0005 U
N-Nitrosodiphenylamine	mg/kg	11	**0.0014 J**	0.0049 J	--	0.005 UJ	--	0.005 UJ	--	0.005 J	0.0049 J
Pentachlorophenol	mg/kg	0.355	0.0195 U	0.0197 U	--	0.02 UJ	--	**0.0124 J**	--	0.02 J	0.0196 U
Phenol	mg/kg	0.42	**0.0098 J**	**0.013 J**	--	0.02 U	--	0.02 U	--	0.02 J	0.0196 U
Other Semivolatile Organic Compounds (SVOCs) - OC Normalized											
Benzyl butyl phthalate (OC normalized)	mg/kg-OC	4.9	**1.43 J**	2.63 U	--	0.702 U	--	**0.85 J**	--	2.17 U	1.8 U
Bis(2-ethylhexyl) phthalate (OC normalized)	mg/kg-OC	47	**6.95 J**	6.56 J	--	**3.03 J**	--	**5.02 J**	--	**5.2 J**	**2.61 J**
Dimethyl phthalate (OC normalized)	mg/kg-OC	53	1.71 U	2.63 U	--	0.70 U	--	1.57 U	--	**0.761 J**	1.8 U
Hexachlorobenzene (OC normalized)	mg/kg-OC	0.38	0.0439 U	0.0667 U	--	0.018 U	--	0.04 U	--	0.0533 U	0.0459 U
N-Nitrosodiphenylamine (OC normalized)	mg/kg-OC	11	**0.123 J**	0.653 J	--	0.18 UJ	--	0.39 UJ	--	0.543 J	0.45 J
Volatile Organic Compounds (VOCs)											
1,2,4-Trichlorobenzene	mg/kg	0.81	0.0049 U	0.0049 U	--	0.005 U	--	0.005 U	--	0.005 J	0.0049 U
1,2-Dichlorobenzene	mg/kg	2.3	0.0049 U	0.0049 U	--	0.005 UJ	--	0.005 UJ	--	0.005 J	0.0049 U
1,4-Dichlorobenzene	mg/kg	3.1	0.0049 U	0.0049 U	--	0.005 UJ	--	0.005 UJ	--	0.005 J	0.0049 U
Volatile Organic Compounds (VOCs) - OC Normalized											
1,2,4-Trichlorobenzene (OC normalized)	mg/kg-OC	0.81	0.43 U	0.653 U	--	0.18 U	--	0.39 U	--	0.543 J	0.45 U
1,2-Dichlorobenzene (OC normalized)	mg/kg-OC	2.3	0.43 U	0.653 U	--	0.18 UJ	--	0.39 UJ	--	0.543 J	0.45 U
1,4-Dichlorobenzene (OC normalized)	mg/kg-OC	3.1	0.43 U	0.653 U	--	0.18 UJ	--	0.39 UJ	--	0.543 J	0.45 U
Conventionals											
Total Organic Carbon	%		**1.14**	**0.75**	**0.59**	**2.85**	--	**1.27**	--	**0.92**	**1.09**

Table H.3.A. Surface Sediment Analytical Data - Full Dataset - LDW COCs

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Gray - Sample not included as part of the refined dataset.
Pink Shaded - Outside accepted total organic carbon (TOC) range.
Green Shaded - Sample TOC outside range for associated screening level (SL).
Light Blue Shaded - Nondetected result (reporting limit) exceeded Initial SL.
Purple Shaded - Detected result exceeded Initial SL.

		Location	**LDW20-SS164**	**LDW20-SS164**	**LDW20-SS166**	**LDW20-SS167**	**LDW20-SS167**	**LDW20-SS168**	**LDW20-SS168**	**LDW20-SS169**	**LDW20-SS169**
		Date	06/05/20	06/05/20	06/12/20	06/05/20	06/05/20	06/05/20	06/05/20	06/11/20	06/11/20
		Sample	LDW20-SS164	LDW20-SS164-TIG	LDW20-SS166	LDW20-SS167	LDW20-SS167-TIG	LDW20-SS168	LDW20-SS168-TIG	LDW20-SS169	LDW20-SS169-TIG
		Depth	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm
Analyte	**Unit**	**Initial SL**									
Metals											
Arsenic	mg/kg	7	--	--	**7.61**	**11.6**	--	**10.4**	--	**10.9**	--
Cadmium	mg/kg	5.1	--	--	**0.12 J**	**0.18 J**	--	**0.17 J**	--	**0.19 J**	--
Chromium	mg/kg	260	--	--	**19.1**	**25.1**	--	**22.3**	--	**23.9**	--
Copper	mg/kg	390	--	--	**24.7**	**42.4**	--	**37.5**	--	**37.7**	--
Lead	mg/kg	450	--	--	**9.57**	**13.8**	--	**11.4**	--	**12.6**	--
Mercury	mg/kg	0.41	--	--	**0.0604**	**0.151 J**	--	**0.111 J**	--	**0.347 J**	--
Zinc	mg/kg	410	--	--	**62.5 J**	**86.3**	--	**73.9**	--	**76.1**	--
Polychlorinated Biphenyl (PCB) Aroclors											
Total PCB Aroclors (ND = 0)	mg/kg	0.002	--	--	**0.0389 J**	**0.0573 J**	--	**0.0334 J**	--	**0.0333 J**	--
Polychlorinated Biphenyl (PCB) Aroclors - OC Normalized											
Total PCB Aroclors (ND = 0) (OC normalized), within TOC of 0.5-3.5%	mg/kg-OC	12	--	--	**4.52 J**	**2.00 J**	--	**1.23 J**	--	**1.21 J**	--
Polchlorinated Biphenyl (PCB) Congeners											
Total PCB Congeners (ND = 0)	mg/kg	0.002	--	**0.0349**	--	--	**0.0304**	--	**0.026**	--	**0.0284**
Polchlorinated Biphenyl (PCB) Congeners - OC Normalized											
Total PCB Congeners (ND = 0) (OC normalized), within TOC of 0.5-3.5%	mg/kg-OC	12	--	**1.11**	--	--	**1.06**	--	**0.96**	--	**1.03**
Dioxins/Furans											
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	2E-06	--	--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)											
2-Methylnaphthalene	mg/kg	38	--	--	**0.0058 J**	0.02 U	--	0.0199 U	--	**0.0096 J**	--
Acenaphthene	mg/kg	16	--	--	0.0197 J	0.02 U	--	0.0199 U	--	**0.0094 J**	--
Anthracene	mg/kg	220	--	--	**0.0066 J**	0.02 UJ	--	**0.0113 J**	--	**0.0076 J**	--
Benzo(g,h,i)perylene	mg/kg	31	--	--	**0.0155 J**	**0.0245**	--	**0.0266**	--	**0.0186 J**	--
Fluoranthene	mg/kg	160	--	--	**0.0461**	**0.0534**	--	**0.063**	--	**0.0586**	--
Fluorene	mg/kg	23	--	--	0.0197 U	0.02 U	--	0.0199 U	--	**0.009 J**	--
Naphthalene	mg/kg	99	--	--	0.0197 U	0.02 U	--	0.0199 U	--	**0.0128 J**	--
Phenanthrene	mg/kg	100	--	--	**0.0216**	**0.0278**	--	**0.0448**	--	**0.05**	--
Pyrene	mg/kg	1000	--	--	**0.0418**	**0.0467**	--	**0.0521**	--	**0.0483**	--
Benz(a)anthracene	mg/kg	110	--	--	**0.0202**	**0.0224**	--	**0.0269**	--	**0.0181 J**	--
Benzo(a)pyrene	mg/kg	99	--	--	**0.0213**	**0.0244 J**	--	**0.0303 J**	--	**0.0188 J**	--
Chrysene	mg/kg	110	--	--	**0.029**	**0.0388**	--	**0.0561**	--	**0.0285**	--
Dibenzo(a,h)anthracene	mg/kg	12	--	--	0.0197 U	0.02 U	--	0.0199 U	--	**0.0068 J**	--
Indeno(1,2,3-cd)pyrene	mg/kg	34	--	--	**0.0149 J**	**0.0174 J**	--	**0.021**	--	**0.0173 J**	--
Total Benzofluoranthenes	mg/kg	230	--	--	--	--	--	--	--	--	--
Total HPAHs (ND = 1/2 RDL)	mg/kg	960	--	--	**0.255 J**	**0.305 J**	--	**0.357 J**	--	**0.264 J**	--
Total LPAHs (ND = 1/2 RDL)	mg/kg	370	--	--	**0.0676 J**	**0.0778**	--	**0.0959 J**	--	**0.0987 J**	--
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	0.59	--	--	**0.0317 J**	**0.0395 J**	--	**0.0467 J**	--	**0.0302 J**	--
Polycyclic Aromatic Hydrocarbons (PAHs) - OC Normalized											
2-Methylnaphthalene (OC normalized)	mg/kg-OC	38	--	--	**0.674 J**	0.70 U	--	0.73 U	--	**0.35 J**	--
Acenaphthene (OC normalized)	mg/kg-OC	16	--	--	2.29 J	0.70 U	--	0.73 U	--	**0.34 J**	--
Anthracene (OC normalized)	mg/kg-OC	220	--	--	**0.767 J**	0.699 UJ	--	**0.417 J**	--	**0.28 J**	--
Benzo(g,h,i)perylene (OC normalized)	mg/kg-OC	31	--	--	**1.8 J**	**0.86**	--	**0.98**	--	**0.68 J**	--
Fluoranthene (OC normalized)	mg/kg-OC	160	--	--	**5.36**	**1.87**	--	**2.32**	--	**2.13**	--
Fluorene (OC normalized)	mg/kg-OC	23	--	--	2.29 U	0.70 U	--	0.73 U	--	**0.33 J**	--
Indeno(1,2,3-cd)pyrene (OC normalized)	mg/kg-OC	34	--	--	**1.73 J**	**0.61 J**	--	**0.77**	--	**0.63 J**	--
Naphthalene (OC normalized)	mg/kg-OC	99	--	--	2.29 U	0.70 U	--	0.73 U	--	**0.47 J**	--
Phenanthrene (OC normalized)	mg/kg-OC	100	--	--	**2.51**	**0.97**	--	**1.65**	--	**1.82**	--
Pyrene (OC normalized)	mg/kg-OC	1000	--	--	**4.86**	**1.63**	--	**1.92**	--	**1.76**	--
Benz(a)anthracene (OC normalized)	mg/kg-OC	110	--	--	**2.35**	**0.78**	--	**0.99**	--	**0.66 J**	--
Benzo(a)pyrene (OC normalized)	mg/kg-OC	99	--	--	**2.48**	**0.85 J**	--	**1.12 J**	--	**0.68 J**	--
Chrysene (OC normalized)	mg/kg-OC	110	--	--	**3.37**	**1.36**	--	**2.07**	--	**1.04**	--
Dibenzo(a,h)anthracene (OC normalized)	mg/kg-OC	12	--	--	2.29 U	0.70 U	--	0.73 U	--	**0.25 J**	--
Total Benzofluoranthenes (OC normalized)	mg/kg-OC	230	--	--	--	--	--	--	--	--	--
Total HPAHs (ND = 1/2 RDL) (OC normalized)	mg/kg-OC	960	--	--	**29.7 J**	**10.7 J**	--	**13.2 J**	--	**9.6 J**	--
Total LPAHs (ND = 1/2 RDL) (OC normalized)	mg/kg-OC	370	--	--	**7.86 J**	**2.72**	--	**3.54 J**	--	**3.59 J**	--
Other Semivolatile Organic Compounds (SVOCs)											
2,4-Dimethylphenol	mg/kg	0.029	--	--	0.0197 J	0.02 UJ	--	0.0199 UJ	--	0.0198 UJ	--
4-Methylphenol	mg/kg	0.67	--	--	0.0197 U	0.02 U	--	0.0199 U	--	0.0198 U	--
Benzoic Acid	mg/kg	0.65	--	--	**0.0249 J**	**0.21**	--	**0.104**	--	**0.104 J**	--
Benzyl Alcohol	mg/kg	0.057	--	--	**0.0083 J**	**0.0449**	--	**0.0386**	--	**0.0381**	--
Benzyl butyl phthalate	mg/kg	4.9	--	--	0.0197 U	0.02 U	--	0.0199 U	--	0.0198 U	--
Bis(2-ethylhexyl) phthalate	mg/kg	47	--	--	**0.0416 J**	**0.0621 J**	--	**0.0544 J**	--	**0.0568**	--
Dibenzofuran	mg/kg	15	--	--	0.0197 U	**0.0137 J**	--	0.0199 U	--	**0.0084 J**	--
Dimethyl phthalate	mg/kg	53	--	--	0.0197 U	0.02 U	--	0.0199 U	--	0.0198 U	--
Hexachlorobenzene	mg/kg	0.38	--	--	0.0005 U	0.0005 U	--	0.00049 U	--	0.0005 U	--
N-Nitrosodiphenylamine	mg/kg	11	--	--	0.0049 J	**0.0014 J**	--	0.005 UJ	--	0.005 UJ	--
Pentachlorophenol	mg/kg	0.355	--	--	0.0197 U	**0.0045 J**	--	0.0199 UJ	--	0.0198 UJ	--
Phenol	mg/kg	0.42	--	--	**0.0089 J**	0.02 U	--	0.0199 U	--	**0.0161 J**	--
Other Semivolatile Organic Compounds (SVOCs) - OC Normalized											
Benzyl butyl phthalate (OC normalized)	mg/kg-OC	4.9	--	--	2.29 U	0.699 U	--	0.734 U	--	0.72 U	--
Bis(2-ethylhexyl) phthalate (OC normalized)	mg/kg-OC	47	--	--	**4.84 J**	**2.17 J**	--	**2.01 J**	--	**2.07**	--
Dimethyl phthalate (OC normalized)	mg/kg-OC	53	--	--	2.29 U	0.70 U	--	0.73 U	--	0.72 U	--
Hexachlorobenzene (OC normalized)	mg/kg-OC	0.38	--	--	0.0581 U	0.02 U	--	0.02 U	--	0.02 U	--
N-Nitrosodiphenylamine (OC normalized)	mg/kg-OC	11	--	--	0.57 J	**0.05 J**	--	0.18 UJ	--	0.18 UJ	--
Volatile Organic Compounds (VOCs)											
1,2,4-Trichlorobenzene	mg/kg	0.81	--	--	0.0049 U	0.005 U	--	0.005 U	--	0.005 U	--
1,2-Dichlorobenzene	mg/kg	2.3	--	--	0.0049 U	0.005 UJ	--	0.005 UJ	--	0.005 U	--
1,4-Dichlorobenzene	mg/kg	3.1	--	--	0.0049 U	0.005 UJ	--	0.005 UJ	--	0.005 U	--
Volatile Organic Compounds (VOCs) - OC Normalized											
1,2,4-Trichlorobenzene (OC normalized)	mg/kg-OC	0.81	--	--	0.57 U	0.17 U	--	0.18 U	--	0.18 U	--
1,2-Dichlorobenzene (OC normalized)	mg/kg-OC	2.3	--	--	0.57 U	0.17 UJ	--	0.18 UJ	--	0.18 U	--
1,4-Dichlorobenzene (OC normalized)	mg/kg-OC	3.1	--	--	0.57 U	0.17 UJ	--	0.18 UJ	--	0.18 U	--
Conventionals											
Total Organic Carbon	%		**3.15**	--	**0.86**	**2.86**	--	**2.71**	--	**2.75**	--

Table H.3.A. Surface Sediment Analytical Data - Full Dataset - LDW COCs

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Gray - Sample not included as part of the refined dataset.
Pink Shaded - Outside accepted total organic carbon (TOC) range.
Green Shaded - Sample TOC outside range for associated screening level (SL).
Light Blue Shaded - Nondetected result (reporting limit) exceeded Initial SL.
Purple Shaded - Detected result exceeded Initial SL.

		Location	**LDW21-SS555**	**LDW21-SS556**	**LDW22-SS771**	**LDW22-SS772**	**LDW22-SS773**	**LDW22-SS774**	***LDW-SS536***	***LDW-SS537***	**LDW-SS2214-A**
		Date	07/21/21	07/21/21	12/06/22	12/06/22	12/02/22	12/02/22	*12/17/09*	*12/17/09*	03/07/11
		Sample	LDW21-SS555	LDW21-SS556	LDW22-SS771	LDW22-SS772	LDW22-SS773	LDW22-SS774	*LDW-SS536-010*	*LDW-SS537-010*	LDW-SS2214-A
		Depth	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	*0 - 10 cm*	*0 - 10 cm*	0 - 10 cm
Analyte	**Unit**	**Initial SL**									
Metals											
Arsenic	mg/kg	7	--	--	--	--	--	--	--	--	**20**
Cadmium	mg/kg	5.1	--	--	--	--	--	--	--	--	**0.6**
Chromium	mg/kg	260	--	--	--	--	--	--	--	--	**34**
Copper	mg/kg	390	--	--	--	--	--	--	--	--	**66.7**
Lead	mg/kg	450	--	--	--	--	--	--	--	--	**22**
Mercury	mg/kg	0.41	--	--	--	--	--	--	--	--	**0.11**
Zinc	mg/kg	410	--	--	--	--	--	--	--	--	**119**
Polychlorinated Biphenyl (PCB) Aroclors											
Total PCB Aroclors (ND = 0)	mg/kg	0.002	**0.0577**	**0.0533**	**0.055**	**0.046**	**0.17**	0.004 U	--	--	**0.29**
Polychlorinated Biphenyl (PCB) Aroclors - OC Normalized											
Total PCB Aroclors (ND = 0) (OC normalized), within TOC of 0.5-3.5%	mg/kg-OC	12	**5.95**	**2.94**	**2.02**	**1.63**	**7.01**	0.08 U	--	--	**10.7**
Polchlorinated Biphenyl (PCB) Congeners											
Total PCB Congeners (ND = 0)	mg/kg	0.002	--	--	--	--	--		--	--	--
Polchlorinated Biphenyl (PCB) Congeners - OC Normalized											
Total PCB Congeners (ND = 0) (OC normalized), within TOC of 0.5-3.5%	mg/kg-OC	12	--	--	--	--	--	--	--	--	--
Dioxins/Furans											
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	2E-06	--	--	--	--	--	--	***3.9E-06 J***	***4.4E-06 J***	--
Polycyclic Aromatic Hydrocarbons (PAHs)											
2-Methylnaphthalene	mg/kg	38	--	--	--	--	--	--	--	--	**0.01 J**
Acenaphthene	mg/kg	16	--	--	--	--	--	--	--	--	0.019 U
Anthracene	mg/kg	220	--	--	--	--	--	--	--	--	**0.026**
Benzo(g,h,i)perylene	mg/kg	31	--	--	--	--	--	--	--	--	**0.069**
Fluoranthene	mg/kg	160	--	--	--	--	--	--	--	--	**0.27**
Fluorene	mg/kg	23	--	--	--	--	--	--	--	--	**0.013 J**
Naphthalene	mg/kg	99	--	--	--	--	--	--	--	--	**0.014 J**
Phenanthrene	mg/kg	100	--	--	--	--	--	--	--	--	**0.085**
Pyrene	mg/kg	1000	--	--	--	--	--	--	--	--	**0.21**
Benz(a)anthracene	mg/kg	110	--	--	--	--	--	--	--	--	**0.081**
Benzo(a)pyrene	mg/kg	99	--	--	--	--	--	--	--	--	**0.085**
Chrysene	mg/kg	110	--	--	--	--	--	--	--	--	**0.17**
Dibenzo(a,h)anthracene	mg/kg	12	--	--	--	--	--	--	--	--	**0.021**
Indeno(1,2,3-cd)pyrene	mg/kg	34	--	--	--	--	--	--	--	--	**0.057**
Total Benzofluoranthenes	mg/kg	230	--	--	--	--	--	--	--	--	--
Total HPAHs (ND = 1/2 RDL)	mg/kg	960	--	--	--	--	--	--	--	--	**1.19**
Total LPAHs (ND = 1/2 RDL)	mg/kg	370	--	--	--	--	--	--	--	--	**0.157 J**
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	0.59	--	--	--	--	--	--	--	--	**0.126**
Polycyclic Aromatic Hydrocarbons (PAHs) - OC Normalized											
2-Methylnaphthalene (OC normalized)	mg/kg-OC	38	--	--	--	--	--	--	--	--	**0.37 J**
Acenaphthene (OC normalized)	mg/kg-OC	16	--	--	--	--	--	--	--	--	0.70 U
Anthracene (OC normalized)	mg/kg-OC	220	--	--	--	--	--	--	--	--	**0.96**
Benzo(g,h,i)perylene (OC normalized)	mg/kg-OC	31	--	--	--	--	--	--	--	--	**2.6**
Fluoranthene (OC normalized)	mg/kg-OC	160	--	--	--	--	--	--	--	--	**10**
Fluorene (OC normalized)	mg/kg-OC	23	--	--	--	--	--	--	--	--	**0.48 J**
Indeno(1,2,3-cd)pyrene (OC normalized)	mg/kg-OC	34	--	--	--	--	--	--	--	--	**2.1**
Naphthalene (OC normalized)	mg/kg-OC	99	--	--	--	--	--	--	--	--	**0.52 J**
Phenanthrene (OC normalized)	mg/kg-OC	100	--	--	--	--	--	--	--	--	**3.1**
Pyrene (OC normalized)	mg/kg-OC	1000	--	--	--	--	--	--	--	--	**7.8**
Benz(a)anthracene (OC normalized)	mg/kg-OC	110	--	--	--	--	--	--	--	--	**3**
Benzo(a)pyrene (OC normalized)	mg/kg-OC	99	--	--	--	--	--	--	--	--	**3.1**
Chrysene (OC normalized)	mg/kg-OC	110	--	--	--	--	--	--	--	--	**6.3**
Dibenzo(a,h)anthracene (OC normalized)	mg/kg-OC	12	--	--	--	--	--	--	--	--	**0.78**
Total Benzofluoranthenes (OC normalized)	mg/kg-OC	230	--	--	--	--	--	--	--	--	--
Total HPAHs (ND = 1/2 RDL) (OC normalized)	mg/kg-OC	960	--	--	--	--	--	--	--	--	**44**
Total LPAHs (ND = 1/2 RDL) (OC normalized)	mg/kg-OC	370	--	--	--	--	--	--	--	--	**5.8 J**
Other Semivolatile Organic Compounds (SVOCs)											
2,4-Dimethylphenol	mg/kg	0.029	--	--	--	--	--	--	--	--	0.0048 U
4-Methylphenol	mg/kg	0.67	--	--	**0.0075 J**	0.0200 U	0.0200 U	0.0199 U	--	--	**0.16**
Benzoic Acid	mg/kg	0.65	--	--	--	--	--	--	--	--	**0.48**
Benzyl Alcohol	mg/kg	0.057	--	--	--	--	--	--	--	--	**0.28 J**
Benzyl butyl phthalate	mg/kg	4.9	--	--	--	--	--	--	--	--	**0.024 J**
Bis(2-ethylhexyl) phthalate	mg/kg	47	--	--	--	--	--	--	--	--	**0.17**
Dibenzofuran	mg/kg	15	--	--	--	--	--	--	--	--	**0.015 J**
Dimethyl phthalate	mg/kg	53	--	--	--	--	--	--	--	--	**0.027**
Hexachlorobenzene	mg/kg	0.38	--	--	--	--	--	--	--	--	0.0048 U
N-Nitrosodiphenylamine	mg/kg	11	--	--	--	--	--	--	--	--	0.0048 U
Pentachlorophenol	mg/kg	0.355	--	--	--	--	--	--	--	--	**0.015 J**
Phenol	mg/kg	0.42	--	--	--	--	--	--	--	--	**0.048**
Other Semivolatile Organic Compounds (SVOCs) - OC Normalized											
Benzyl butyl phthalate (OC normalized)	mg/kg-OC	4.9	--	--	--	--	--	--	--	--	**0.89 J**
Bis(2-ethylhexyl) phthalate (OC normalized)	mg/kg-OC	47	--	--	--	--	--	--	--	--	**6.3**
Dimethyl phthalate (OC normalized)	mg/kg-OC	53	--	--	--	--	--	--	--	--	**1**
Hexachlorobenzene (OC normalized)	mg/kg-OC	0.38	--	--	--	--	--	--	--	--	0.18 U
N-Nitrosodiphenylamine (OC normalized)	mg/kg-OC	11	--	--	--	--	--	--	--	--	0.18 U
Volatile Organic Compounds (VOCs)											
1,2,4-Trichlorobenzene	mg/kg	0.81	--	--	--	--	--	--	--	--	0.0048 U
1,2-Dichlorobenzene	mg/kg	2.3	--	--	--	--	--	--	--	--	0.0048 U
1,4-Dichlorobenzene	mg/kg	3.1	--	--	--	--	--	--	--	--	0.0048 U
Volatile Organic Compounds (VOCs) - OC Normalized											
1,2,4-Trichlorobenzene (OC normalized)	mg/kg-OC	0.81	--	--	--	--	--	--	--	--	0.18 U
1,2-Dichlorobenzene (OC normalized)	mg/kg-OC	2.3	--	--	--	--	--	--	--	--	0.18 U
1,4-Dichlorobenzene (OC normalized)	mg/kg-OC	3.1	--	--	--	--	--	--	--	--	0.18 U
Conventionals											
Total Organic Carbon	%		**0.97**	**1.81**	**2.75**	**2.82**	**2.42**	**0.05**	***1.05***	***1.54***	**2.7**

Table H.3.A. Surface Sediment Analytical Data - Full Dataset - LDW COCs

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Gray - Sample not included as part of the refined dataset.
Pink Shaded - Outside accepted total organic carbon (TOC) range.
Green Shaded - Sample TOC outside range for associated screening level (SL).
Light Blue Shaded - Nondetected result (reporting limit) exceeded Initial SL.
Purple Shaded - Detected result exceeded Initial SL.

		Location	**LDW-SS2214-D**	***LDW-SS2214-U***	***PERIM-5-PRE***	**PERIM-5-POST**	***PERIM-6-PRE***	**PERIM-6-POST**	***S1***	**SC-01**
		Date	03/07/11	*03/07/11*	*11/22/13*	05/12/14	*11/22/13*	05/12/14	*10/05/98*	02/25/16
		Sample	LDW-SS2214-D	*LDW-SS2214-U*	*SG-PERIM-5-PRE*	SG-PERIM-5-POST	*SG-PERIM-6-PRE*	SG-PERIM-6-POST	*S1*	SPM-SC-01-02252016-0-0.1
		Depth	0 - 10 cm	*0 - 10 cm*	*0 - 10 cm*	0 - 10 cm	*0 - 10 cm*	0 - 10 cm	*0 - 10 cm*	0 - 10 cm
Analyte	**Unit**	**Initial SL**								
Metals										
Arsenic	mg/kg	7	**20**	***20***	***15.8***	**4.26**	***15***	**4.4**	***9***	--
Cadmium	mg/kg	5.1	**0.5**	***0.6***	*1 U*	1 U	*1 U*	1 U	***0.4***	--
Chromium	mg/kg	260	**34**	***33***	***16.6***	**12.7 J**	***16.1***	**12.5 J**	***25***	--
Copper	mg/kg	390	**67.2**	***64***	***41.2***	**21.8**	***49.8***	**21.2**	***32***	--
Lead	mg/kg	450	**22**	***24***	***17***	**7.02**	***16.6***	**6.94**	***16***	--
Mercury	mg/kg	0.41	**0.12**	***0.12***	***0.15 J***	**0.071**	***0.15 J***	**0.063**	***0.12***	--
Zinc	mg/kg	410	**115**	***117***	***79.4 J***	**39.7**	***84.3 J***	**39.9**	***75.2***	--
Polychlorinated Biphenyl (PCB) Aroclors										
Total PCB Aroclors (ND = 0)	mg/kg	0.002	**0.31**	***0.41***	***0.16***	**0.036 J**	***0.19***	**0.043 J**	***0.035***	**0.0301**
Polychlorinated Biphenyl (PCB) Aroclors - OC Normalized										
Total PCB Aroclors (ND = 0) (OC normalized), within TOC of 0.5-3.5%	mg/kg-OC	12	**8.71**	***15.2***	***6.96***	**2.61 J**	***8.48***	**3.55 J**	***1.8 J***	**2.28**
Polchlorinated Biphenyl (PCB) Congeners										
Total PCB Congeners (ND = 0)	mg/kg	0.002	--	--	--	--	--	--	--	**0.0672 J**
Polchlorinated Biphenyl (PCB) Congeners - OC Normalized										
Total PCB Congeners (ND = 0) (OC normalized), within TOC of 0.5-3.5%	mg/kg-OC	12	--	--	--	--	--	--	--	**5.1 J**
Dioxins/Furans										
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	2E-06	--	--	***6.6E-06 J***	**1.3E-06 J**	***8.4E-06 J***	**1.8E-06 J**	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)										
2-Methylnaphthalene	mg/kg	38	0.019 U	*0.02 U*	***0.0041 J***	**0.0055**	***0.013 J***	**0.0072**	*0.02 U*	--
Acenaphthene	mg/kg	16	**0.012 J**	*0.02 U*	*0.04 U*	0.005 U	*0.04 U*	**0.012**	*0.02 U*	--
Anthracene	mg/kg	220	**0.036**	***0.026***	***0.096 J***	**0.011**	***0.055 J***	**0.022**	*0.02 U*	--
Benzo(g,h,i)perylene	mg/kg	31	**0.076**	***0.055***	***0.17***	**0.015**	***0.16***	**0.045**	*0.02 U*	--
Fluoranthene	mg/kg	160	**0.27**	***0.23***	***1.3***	**0.045**	***1***	**0.11**	***0.16 J***	--
Fluorene	mg/kg	23	**0.018 J**	***0.011 J***	***0.051***	**0.0054**	*0.04 U*	**0.013**	*0.02 U*	--
Naphthalene	mg/kg	99	**0.014 J**	***0.012 J***	*0.04 U*	0.005 U	*0.04 U*	**0.0066**	*0.02 U*	--
Phenanthrene	mg/kg	100	**0.12**	***0.085***	***0.62 J***	**0.028**	***0.19 J***	**0.1**	***0.075 J***	--
Pyrene	mg/kg	1000	**0.21**	***0.17***	***0.94***	**0.043**	***0.74***	**0.14**	***0.029 J***	--
Benz(a)anthracene	mg/kg	110	**0.099**	***0.086***	***0.43***	**0.016**	***0.35***	**0.055**	***0.061 J***	--
Benzo(a)pyrene	mg/kg	99	**0.094**	***0.076***	***0.33***	**0.016**	***0.3***	**0.059**	*0.02 U*	--
Chrysene	mg/kg	110	**0.16**	***0.15***	***0.38***	**0.026**	***0.39***	**0.071**	***0.07 J***	--
Dibenzo(a,h)anthracene	mg/kg	12	**0.024**	***0.018***	***0.043***	0.005 U	*0.04 U*	**0.0075**	*0.02 U*	--
Indeno(1,2,3-cd)pyrene	mg/kg	34	**0.064**	***0.05***	***0.19***	**0.014**	***0.18***	**0.043**	*0.02 U*	--
Total Benzofluoranthenes	mg/kg	230	--	--	--	--	--	--	***0.112 J***	--
Total HPAHs (ND = 1/2 RDL)	mg/kg	960	**1.22**	***1.04***	***4.59***	**0.214**	***3.88***	**0.632**	***0.472***	--
Total LPAHs (ND = 1/2 RDL)	mg/kg	370	**0.210 J**	***0.154 J***	***0.827 J***	**0.0519**	***0.325 J***	**0.156**	***0.125***	--
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	0.59	**0.138**	***0.113***	***0.481***	**0.0231**	***0.433***	**0.0804**	***0.03***	--
Polycyclic Aromatic Hydrocarbons (PAHs) - OC Normalized										
2-Methylnaphthalene (OC normalized)	mg/kg-OC	38	0.53 U	*0.74 U*	***0.178 J***	**0.399**	***0.58 J***	**0.595**	*1 JU*	--
Acenaphthene (OC normalized)	mg/kg-OC	16	**0.34 J**	*0.74 U*	*1.74 U*	0.362 U	*1.79 U*	**0.992**	*1 JU*	--
Anthracene (OC normalized)	mg/kg-OC	220	**1.0**	***0.97***	***4.17 J***	**0.797**	***2.46 J***	**1.82**	*1 JU*	--
Benzo(g,h,i)perylene (OC normalized)	mg/kg-OC	31	**2.1**	***2.0***	***7.39***	**1.09**	***7.14***	**3.72**	*1 JU*	--
Fluoranthene (OC normalized)	mg/kg-OC	160	**7.6**	***8.6***	***56.5***	**3.26**	***44.6***	**9.09**	***8 J***	--
Fluorene (OC normalized)	mg/kg-OC	23	**0.51 J**	***0.41 J***	***2.22***	**0.391**	*1.79 U*	**1.07**	*1 JU*	--
Indeno(1,2,3-cd)pyrene (OC normalized)	mg/kg-OC	34	**1.8**	***1.9***	***8.26***	**1.01**	***8.04***	**3.55**	*1 JU*	--
Naphthalene (OC normalized)	mg/kg-OC	99	**0.39 J**	***0.45 J***	*1.74 U*	0.362 U	*1.79 U*	**0.545**	*1 JU*	--
Phenanthrene (OC normalized)	mg/kg-OC	100	**3.4**	***3.2***	***27 J***	**2.03**	***8.48 J***	**8.26**	***3.8 J***	--
Pyrene (OC normalized)	mg/kg-OC	1000	**5.9**	***6.3***	***40.9***	**3.12**	***33***	**11.6**	***1.5 J***	--
Benz(a)anthracene (OC normalized)	mg/kg-OC	110	**2.8**	***3.2***	***18.7***	**1.16**	***15.6***	**4.55**	***3.1 J***	--
Benzo(a)pyrene (OC normalized)	mg/kg-OC	99	**2.6**	***2.8***	***14.3***	**1.16**	***13.4***	**4.88**	*1 JU*	--
Chrysene (OC normalized)	mg/kg-OC	110	**4.5**	***5.6***	***16.5***	**1.88**	***17.4***	**5.87**	***3.5 J***	--
Dibenzo(a,h)anthracene (OC normalized)	mg/kg-OC	12	**0.67**	***0.67***	***1.87***	0.362 U	*1.79 U*	**0.62**	*1 JU*	--
Total Benzofluoranthenes (OC normalized)	mg/kg-OC	230	--	--	--	--	--	--	***5.6 J***	--
Total HPAHs (ND = 1/2 RDL) (OC normalized)	mg/kg-OC	960	**34**	***38***	***200***	**15.5**	***173***	**52.2**	***24 J***	--
Total LPAHs (ND = 1/2 RDL) (OC normalized)	mg/kg-OC	370	**5.9 J**	***5.7 J***	***36 J***	**3.76**	***14.5 J***	**12.9**	***6.3 J***	--
Other Semivolatile Organic Compounds (SVOCs)										
2,4-Dimethylphenol	mg/kg	0.029	0.0048 U	*0.005 U*	*0.019 U*	0.01 U	*0.019 U*	0.01 U	*0.02 U*	--
4-Methylphenol	mg/kg	0.67	**0.4**	***4.9***	--	--	--	--	*0.02 U*	--
Benzoic Acid	mg/kg	0.65	**0.49**	***0.44***	*0.054 U*	0.1 U	***0.059 J***	0.1 U	*0.2 U*	--
Benzyl Alcohol	mg/kg	0.057	**0.28 J**	***0.19 J***	***0.035 J***	0.02 U	***0.067 J***	0.02 U	*0.02 U*	--
Benzyl butyl phthalate	mg/kg	4.9	**0.048 J**	***0.028***	***0.015 J***	0.01 UJ	***0.033 J***	0.01 U	*0.02 U*	--
Bis(2-ethylhexyl) phthalate	mg/kg	47	**0.14**	***0.094***	***0.11***	**0.12 J**	***0.15***	**0.13 J**	*0.18 U*	--
Dibenzofuran	mg/kg	15	**0.014 J**	*0.02 U*	***0.0089 J***	**0.0051**	***0.033 J***	**0.0074**	*0.02 U*	--
Dimethyl phthalate	mg/kg	53	**0.027**	***0.0098***	***0.013***	0.01 U	***0.013***	0.01 U	*0.02 U*	--
Hexachlorobenzene	mg/kg	0.38	0.0048 U	*0.005 U*	*0.001 UJ*	0.002 U	*0.001 UJ*	0.002 U	--	--
N-Nitrosodiphenylamine	mg/kg	11	0.0048 U	*0.005 U*	*0.001 UJ*	0.002 U	*0.001 J*	0.002 U	*0.02 U*	--
Pentachlorophenol	mg/kg	0.355	0.024 U	*0.025 U*	*0.0062 UJ*	0.01 U	*0.0062 J*	0.01 U	*0.1 U*	--
Phenol	mg/kg	0.42	**0.079**	***0.48***	***0.007***	0.002 U	***0.0063***	0.002 U	*0.02 U*	--
Other Semivolatile Organic Compounds (SVOCs) - OC Normalized										
Benzyl butyl phthalate (OC normalized)	mg/kg-OC	4.9	**1.3 J**	***1.0***	***0.652 J***	0.725 UJ	***1.47 J***	0.826 U	*1 JU*	--
Bis(2-ethylhexyl) phthalate (OC normalized)	mg/kg-OC	47	**3.9**	***3.5***	***4.78***	**8.7 J**	***6.7***	**10.7 J**	*9.0 JU*	--
Dimethyl phthalate (OC normalized)	mg/kg-OC	53	**0.76**	***0.36***	***0.565***	0.725 U	***0.58***	0.826 U	*1 JU*	--
Hexachlorobenzene (OC normalized)	mg/kg-OC	0.38	0.13 U	*0.19 U*	*0.0435 UJ*	0.145 U	*0.0446 UJ*	0.165 U	--	--
N-Nitrosodiphenylamine (OC normalized)	mg/kg-OC	11	0.13 U	*0.19 U*	*0.0435 UJ*	0.145 U	*0.0446 J*	0.165 U	*1 JU*	--
Volatile Organic Compounds (VOCs)										
1,2,4-Trichlorobenzene	mg/kg	0.81	0.0048 U	*0.005 U*	***0.0089***	0.002 U	***0.0058***	0.002 U	*0.0072 U*	--
1,2-Dichlorobenzene	mg/kg	2.3	0.0048 U	*0.005 U*	***0.005***	0.002 U	*0.004 U*	0.002 U	*0.0014 U*	--
1,4-Dichlorobenzene	mg/kg	3.1	0.0048 U	*0.005 U*	***0.0031***	0.002 U	***0.0038***	0.002 U	*0.0014 U*	--
Volatile Organic Compounds (VOCs) - OC Normalized										
1,2,4-Trichlorobenzene (OC normalized)	mg/kg-OC	0.81	0.13 U	*0.19 U*	***0.387***	0.145 U	***0.259***	0.165 U	*0.36 JU*	--
1,2-Dichlorobenzene (OC normalized)	mg/kg-OC	2.3	0.13 U	*0.19 U*	***0.217***	0.145 U	*0.179 U*	0.165 U	*0.070 JU*	--
1,4-Dichlorobenzene (OC normalized)	mg/kg-OC	3.1	0.13 U	*0.19 U*	***0.135***	0.145 U	***0.17***	0.165 U	*0.070 JU*	--
Conventionals										
Total Organic Carbon	%		**3.56**	***2.69***	***2.3***	**1.38**	***2.24***	**1.21**	--	**1.32**

Table H.3.A. Surface Sediment Analytical Data - Full Dataset - LDW COCs

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Gray - Sample not included as part of the refined dataset.
Pink Shaded - Outside accepted total organic carbon (TOC) range.
Green Shaded - Sample TOC outside range for associated screening level (SL).
Light Blue Shaded - Nondetected result (reporting limit) exceeded Initial SL.
Purple Shaded - Detected result exceeded Initial SL.

			Location	SC-02	SC-03	SC-04	SC-05	SC-06	SC-07
			Date	02/24/16	02/25/16	02/26/16	02/25/16	02/24/16	02/25/16
			Sample	SPM-SC-02-02242016-0-0.1	SPM-SC-03-02252016-0-0.1	SPM-SC-04-02262016-0-0.1	SPM-SC-05-02252016-0-0.1	SPM-SC-06-02242016-0-0.1	SPM-SC-07-02252016-0-0.1
			Depth	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm
Analyte	**Unit**	**Initial SL**							
Metals									
Arsenic	mg/kg	7		--	--	--	--	--	--
Cadmium	mg/kg	5.1		--	--	--	--	--	--
Chromium	mg/kg	260		--	--	--	--	--	--
Copper	mg/kg	390		--	--	--	--	--	--
Lead	mg/kg	450		--	--	--	--	--	--
Mercury	mg/kg	0.41		--	--	--	--	--	--
Zinc	mg/kg	410		--	--	--	--	--	--
Polychlorinated Biphenyl (PCB) Aroclors									
Total PCB Aroclors (ND = 0)	mg/kg	0.002		**0.041**	**0.0189**	**0.0219**	0.04 U	**0.093**	0.08 U
Polychlorinated Biphenyl (PCB) Aroclors - OC Normalized									
Total PCB Aroclors (ND = 0) (OC normalized), within TOC of 0.5-3.5%	mg/kg-OC	12		**1.92**	**1.54**	**1.51**	2.56 U	**5**	4.21 U
Polchlorinated Biphenyl (PCB) Congeners									
Total PCB Congeners (ND = 0)	mg/kg	0.002		**0.0171 J**	**0.00604 J**	**0.0382 J**	**0.00495 J**	**0.0183 J**	**0.0429 J**
Polchlorinated Biphenyl (PCB) Congeners - OC Normalized									
Total PCB Congeners (ND = 0) (OC normalized), within TOC of 0.5-3.5%	mg/kg-OC	12		**0.80 J**	**0.49 J**	**2.6 J**	**0.32 J**	**0.99 J**	**2.3 J**
Dioxins/Furans									
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	2E-06		--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)									
2-Methylnaphthalene	mg/kg	38		--	--	--	--	--	--
Acenaphthene	mg/kg	16		--	--	--	--	--	--
Anthracene	mg/kg	220		--	--	--	--	--	--
Benzo(g,h,i)perylene	mg/kg	31		--	--	--	--	--	--
Fluoranthene	mg/kg	160		--	--	--	--	--	--
Fluorene	mg/kg	23		--	--	--	--	--	--
Naphthalene	mg/kg	99		--	--	--	--	--	--
Phenanthrene	mg/kg	100		--	--	--	--	--	--
Pyrene	mg/kg	1000		--	--	--	--	--	--
Benz(a)anthracene	mg/kg	110		--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	99		--	--	--	--	--	--
Chrysene	mg/kg	110		--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	12		--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	34		--	--	--	--	--	--
Total Benzofluoranthenes	mg/kg	230		--	--	--	--	--	--
Total HPAHs (ND = 1/2 RDL)	mg/kg	960		--	--	--	--	--	--
Total LPAHs (ND = 1/2 RDL)	mg/kg	370		--	--	--	--	--	--
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	0.59		--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs) - OC Normalized									
2-Methylnaphthalene (OC normalized)	mg/kg-OC	38		--	--	--	--	--	--
Acenaphthene (OC normalized)	mg/kg-OC	16		--	--	--	--	--	--
Anthracene (OC normalized)	mg/kg-OC	220		--	--	--	--	--	--
Benzo(g,h,i)perylene (OC normalized)	mg/kg-OC	31		--	--	--	--	--	--
Fluoranthene (OC normalized)	mg/kg-OC	160		--	--	--	--	--	--
Fluorene (OC normalized)	mg/kg-OC	23		--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene (OC normalized)	mg/kg-OC	34		--	--	--	--	--	--
Naphthalene (OC normalized)	mg/kg-OC	99		--	--	--	--	--	--
Phenanthrene (OC normalized)	mg/kg-OC	100		--	--	--	--	--	--
Pyrene (OC normalized)	mg/kg-OC	1000		--	--	--	--	--	--
Benz(a)anthracene (OC normalized)	mg/kg-OC	110		--	--	--	--	--	--
Benzo(a)pyrene (OC normalized)	mg/kg-OC	99		--	--	--	--	--	--
Chrysene (OC normalized)	mg/kg-OC	110		--	--	--	--	--	--
Dibenzo(a,h)anthracene (OC normalized)	mg/kg-OC	12		--	--	--	--	--	--
Total Benzofluoranthenes (OC normalized)	mg/kg-OC	230		--	--	--	--	--	--
Total HPAHs (ND = 1/2 RDL) (OC normalized)	mg/kg-OC	960		--	--	--	--	--	--
Total LPAHs (ND = 1/2 RDL) (OC normalized)	mg/kg-OC	370		--	--	--	--	--	--
Other Semivolatile Organic Compounds (SVOCs)									
2,4-Dimethylphenol	mg/kg	0.029		--	--	--	--	--	--
4-Methylphenol	mg/kg	0.67		--	--	--	--	--	--
Benzoic Acid	mg/kg	0.65		--	--	--	--	--	--
Benzyl Alcohol	mg/kg	0.057		--	--	--	--	--	--
Benzyl butyl phthalate	mg/kg	4.9		--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate	mg/kg	47		--	--	--	--	--	--
Dibenzofuran	mg/kg	15		--	--	--	--	--	--
Dimethyl phthalate	mg/kg	53		--	--	--	--	--	--
Hexachlorobenzene	mg/kg	0.38		--	--	--	--	--	--
N-Nitrosodiphenylamine	mg/kg	11		--	--	--	--	--	--
Pentachlorophenol	mg/kg	0.355		--	--	--	--	--	--
Phenol	mg/kg	0.42		--	--	--	--	--	--
Other Semivolatile Organic Compounds (SVOCs) - OC Normalized									
Benzyl butyl phthalate (OC normalized)	mg/kg-OC	4.9		--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate (OC normalized)	mg/kg-OC	47		--	--	--	--	--	--
Dimethyl phthalate (OC normalized)	mg/kg-OC	53		--	--	--	--	--	--
Hexachlorobenzene (OC normalized)	mg/kg-OC	0.38		--	--	--	--	--	--
N-Nitrosodiphenylamine (OC normalized)	mg/kg-OC	11		--	--	--	--	--	--
Volatile Organic Compounds (VOCs)									
1,2,4-Trichlorobenzene	mg/kg	0.81		--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	2.3		--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	3.1		--	--	--	--	--	--
Volatile Organic Compounds (VOCs) - OC Normalized									
1,2,4-Trichlorobenzene (OC normalized)	mg/kg-OC	0.81		--	--	--	--	--	--
1,2-Dichlorobenzene (OC normalized)	mg/kg-OC	2.3		--	--	--	--	--	--
1,4-Dichlorobenzene (OC normalized)	mg/kg-OC	3.1		--	--	--	--	--	--
Conventionals									
Total Organic Carbon	%			**2.13**	**1.23**	**1.45**	**1.56**	**1.86**	**1.9**

Table H.3.A. Surface Sediment Analytical Data - Full Dataset - LDW COCs

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Gray - Sample not included as part of the refined dataset.
Pink Shaded - Outside accepted total organic carbon (TOC) range.
Green Shaded - Sample TOC outside range for associated screening level (SL).
Light Blue Shaded - Nondetected result (reporting limit) exceeded Initial SL.
Purple Shaded - Detected result exceeded Initial SL.

		Location	**SC-08**	**SC-09**	**SC-10**	**SC-11**	**SC-12**	**SC-13**
		Date	02/25/16	02/26/16	02/24/16	02/25/16	02/26/16	02/26/16
		Sample	SPM-SC-08-02252016-0-0.1	SPM-SC-09-02262016-0-0.1	SPM-SC-10-02242016-0-0.1	SPM-SC-11-02252016-0-0.1	SPM-SC-12-02262016-0-0.1	SPM-SC-13-02262016-0-0.1
		Depth	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm
Analyte	**Unit**	**Initial SL**						
Metals								
Arsenic	mg/kg	7	--	--	--	--	--	--
Cadmium	mg/kg	5.1	--	--	--	--	--	--
Chromium	mg/kg	260	--	--	--	--	--	--
Copper	mg/kg	390	--	--	--	--	--	--
Lead	mg/kg	450	--	--	--	--	--	--
Mercury	mg/kg	0.41	--	--	--	--	--	--
Zinc	mg/kg	410	--	--	--	--	--	--
Polychlorinated Biphenyl (PCB) Aroclors								
Total PCB Aroclors (ND = 0)	mg/kg	0.002	**0.0101**	**0.0375**	**0.0275**	0.08 U	**0.034**	**0.01**
Polychlorinated Biphenyl (PCB) Aroclors - OC Normalized								
Total PCB Aroclors (ND = 0) (OC normalized), within TOC of 0.5-3.5%	mg/kg-OC	12	**0.46**	**1.94**	**1.2**	4.04 U	**1.78**	**0.43**
Polchlorinated Biphenyl (PCB) Congeners								
Total PCB Congeners (ND = 0)	mg/kg	0.002	**0.0974 J**	**0.0512**	**0.0548 J**	**0.0843 J**	**0.0558 J**	**0.0291 J**
Polchlorinated Biphenyl (PCB) Congeners - OC Normalized								
Total PCB Congeners (ND = 0) (OC normalized), within TOC of 0.5-3.5%	mg/kg-OC	12	**4.5 J**	**2.7**	**2.4 J**	**4.3 J**	**2.9 J**	**1.3 J**
Dioxins/Furans								
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	2E-06	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)								
2-Methylnaphthalene	mg/kg	38	--	--	--	--	--	--
Acenaphthene	mg/kg	16	--	--	--	--	--	--
Anthracene	mg/kg	220	--	--	--	--	--	--
Benzo(g,h,i)perylene	mg/kg	31	--	--	--	--	--	--
Fluoranthene	mg/kg	160	--	--	--	--	--	--
Fluorene	mg/kg	23	--	--	--	--	--	--
Naphthalene	mg/kg	99	--	--	--	--	--	--
Phenanthrene	mg/kg	100	--	--	--	--	--	--
Pyrene	mg/kg	1000	--	--	--	--	--	--
Benz(a)anthracene	mg/kg	110	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	99	--	--	--	--	--	--
Chrysene	mg/kg	110	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	12	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	34	--	--	--	--	--	--
Total Benzofluoranthenes	mg/kg	230	--	--	--	--	--	--
Total HPAHs (ND = 1/2 RDL)	mg/kg	960	--	--	--	--	--	--
Total LPAHs (ND = 1/2 RDL)	mg/kg	370	--	--	--	--	--	--
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	0.59	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs) - OC Normalized								
2-Methylnaphthalene (OC normalized)	mg/kg-OC	38	--	--	--	--	--	--
Acenaphthene (OC normalized)	mg/kg-OC	16	--	--	--	--	--	--
Anthracene (OC normalized)	mg/kg-OC	220	--	--	--	--	--	--
Benzo(g,h,i)perylene (OC normalized)	mg/kg-OC	31	--	--	--	--	--	--
Fluoranthene (OC normalized)	mg/kg-OC	160	--	--	--	--	--	--
Fluorene (OC normalized)	mg/kg-OC	23	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene (OC normalized)	mg/kg-OC	34	--	--	--	--	--	--
Naphthalene (OC normalized)	mg/kg-OC	99	--	--	--	--	--	--
Phenanthrene (OC normalized)	mg/kg-OC	100	--	--	--	--	--	--
Pyrene (OC normalized)	mg/kg-OC	1000	--	--	--	--	--	--
Benz(a)anthracene (OC normalized)	mg/kg-OC	110	--	--	--	--	--	--
Benzo(a)pyrene (OC normalized)	mg/kg-OC	99	--	--	--	--	--	--
Chrysene (OC normalized)	mg/kg-OC	110	--	--	--	--	--	--
Dibenzo(a,h)anthracene (OC normalized)	mg/kg-OC	12	--	--	--	--	--	--
Total Benzofluoranthenes (OC normalized)	mg/kg-OC	230	--	--	--	--	--	--
Total HPAHs (ND = 1/2 RDL) (OC normalized)	mg/kg-OC	960	--	--	--	--	--	--
Total LPAHs (ND = 1/2 RDL) (OC normalized)	mg/kg-OC	370	--	--	--	--	--	--
Other Semivolatile Organic Compounds (SVOCs)								
2,4-Dimethylphenol	mg/kg	0.029	--	--	--	--	--	--
4-Methylphenol	mg/kg	0.67	--	--	--	--	--	--
Benzoic Acid	mg/kg	0.65	--	--	--	--	--	--
Benzyl Alcohol	mg/kg	0.057	--	--	--	--	--	--
Benzyl butyl phthalate	mg/kg	4.9	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate	mg/kg	47	--	--	--	--	--	--
Dibenzofuran	mg/kg	15	--	--	--	--	--	--
Dimethyl phthalate	mg/kg	53	--	--	--	--	--	--
Hexachlorobenzene	mg/kg	0.38	--	--	--	--	--	--
N-Nitrosodiphenylamine	mg/kg	11	--	--	--	--	--	--
Pentachlorophenol	mg/kg	0.355	--	--	--	--	--	--
Phenol	mg/kg	0.42	--	--	--	--	--	--
Other Semivolatile Organic Compounds (SVOCs) - OC Normalized								
Benzyl butyl phthalate (OC normalized)	mg/kg-OC	4.9	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate (OC normalized)	mg/kg-OC	47	--	--	--	--	--	--
Dimethyl phthalate (OC normalized)	mg/kg-OC	53	--	--	--	--	--	--
Hexachlorobenzene (OC normalized)	mg/kg-OC	0.38	--	--	--	--	--	--
N-Nitrosodiphenylamine (OC normalized)	mg/kg-OC	11	--	--	--	--	--	--
Volatile Organic Compounds (VOCs)								
1,2,4-Trichlorobenzene	mg/kg	0.81	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	2.3	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	3.1	--	--	--	--	--	--
Volatile Organic Compounds (VOCs) - OC Normalized								
1,2,4-Trichlorobenzene (OC normalized)	mg/kg-OC	0.81	--	--	--	--	--	--
1,2-Dichlorobenzene (OC normalized)	mg/kg-OC	2.3	--	--	--	--	--	--
1,4-Dichlorobenzene (OC normalized)	mg/kg-OC	3.1	--	--	--	--	--	--
Conventionals								
Total Organic Carbon	%		**2.18**	**1.93**	**2.29**	**1.98**	**1.91**	**2.3**

Table H.3.A. Surface Sediment Analytical Data - Full Dataset - LDW COCs

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Gray - Sample not included as part of the refined dataset.
Pink Shaded - Outside accepted total organic carbon (TOC) range.
Green Shaded - Sample TOC outside range for associated screening level (SL).
Light Blue Shaded - Nondetected result (reporting limit) exceeded Initial SL.
Purple Shaded - Detected result exceeded Initial SL.

			Location	SC-14	SC-15	SC-16	SG-07-R2	SG-08-R2	SG-09-R2	SPRK0101	SS107
			Date	02/25/16	02/24/16	02/26/16	03/12/14	03/12/14	03/12/14	09/14/91	03/14/05
			Sample	SPM-SC-14-02252016-0-0.1	SPM-SC-15-02242016-0-0.1	SPM-SC-16-02262016-0-0.1	SG-07-R2	SG-08-R2	SG-09-R2	C1	LDW-SS107-01
			Depth	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm
Analyte	**Unit**	**Initial SL**									
Metals											
Arsenic	mg/kg	7		--	--	--	**1.85**	**7.13**	**2.3**	***16***	**8.7**
Cadmium	mg/kg	5.1		--	--	--	--	--	--	***1.6***	0.3 U
Chromium	mg/kg	260		--	--	--	--	--	--	--	**52.3**
Copper	mg/kg	390		--	--	--	--	--	--	***49***	**40.5 J**
Lead	mg/kg	450		--	--	--	--	--	--	***36***	**33**
Mercury	mg/kg	0.41		--	--	--	--	--	--	***0.21***	0.09 U
Zinc	mg/kg	410		--	--	--	--	--	--	***100***	**84 J**
Polychlorinated Biphenyl (PCB) Aroclors											
Total PCB Aroclors (ND = 0)	mg/kg	0.002		**0.0845**	**0.099**	**0.108**	**0.38**	**0.032**	0.02 UA	***0.054***	**0.121**
Polychlorinated Biphenyl (PCB) Aroclors - OC Normalized											
Total PCB Aroclors (ND = 0) (OC normalized), within TOC of 0.5-3.5%	mg/kg-OC	12		**4.5**	**5.89**	**5.51**	**760**	**1.5**	3.12 UA	***20***	**7.12**
Polchlorinated Biphenyl (PCB) Congeners											
Total PCB Congeners (ND = 0)	mg/kg	0.002		**0.153**	**0.197 J**	**0.0381 J**	--	--	--	--	--
Polchlorinated Biphenyl (PCB) Congeners - OC Normalized											
Total PCB Congeners (ND = 0) (OC normalized), within TOC of 0.5-3.5%	mg/kg-OC	12		**8.1**	**12 J**	**1.9 J**	--	--	--	--	--
Dioxins/Furans											
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	2E-06		--	--	--	**1.4E-06 J**	--	**4.4E-07 J**	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)											
2-Methylnaphthalene	mg/kg	38		--	--	--	0.003 U	0.003 U	0.003 U	*0.067 U*	0.02 U
Acenaphthene	mg/kg	16		--	--	--	0.003 U	0.003 U	0.003 U	*0.063 U*	0.02 U
Anthracene	mg/kg	220		--	--	--	0.003 U	0.003 U	0.003 U	*0.13 U*	**0.02**
Benzo(g,h,i)perylene	mg/kg	31		--	--	--	**0.0037**	**0.041**	**0.0054**	*0.54 U*	**0.024**
Fluoranthene	mg/kg	160		--	--	--	**0.0048**	**0.015**	**0.0068**	*0.63 U*	**0.3**
Fluorene	mg/kg	23		--	--	--	0.003 U	0.003 U	0.003 U	*0.064 U*	0.02 U
Naphthalene	mg/kg	99		--	--	--	0.003 U	0.003 U	0.003 U	*0.21 U*	0.02 U
Phenanthrene	mg/kg	100		--	--	--	0.003 U	**0.0077**	**0.0039**	*0.32 U*	**0.11**
Pyrene	mg/kg	1000		--	--	--	**0.008**	**0.021**	**0.0093**	*0.43 U*	**0.16**
Benz(a)anthracene	mg/kg	110		--	--	--	**0.0039**	**0.0093**	**0.0033**	*0.45 U*	--
Benzo(a)pyrene	mg/kg	99		--	--	--	**0.0037**	**0.022**	**0.005**	*0.68 U*	**0.079**
Chrysene	mg/kg	110		--	--	--	**0.0069**	**0.013**	**0.0058**	*0.67 U*	**0.12**
Dibenzo(a,h)anthracene	mg/kg	12		--	--	--	0.003 U	**0.033**	0.003 U	*0.12 U*	0.02 U
Indeno(1,2,3-cd)pyrene	mg/kg	34		--	--	--	0.003 U	**0.035**	**0.0051**	*0.069 U*	**0.032**
Total Benzofluoranthenes	mg/kg	230		--	--	--	--	--	--	*0.8 U*	--
Total HPAHs (ND = 1/2 RDL)	mg/kg	960		--	--	--	**0.0404**	**0.229**	**0.0527**	*0.8 U*	**0.945**
Total LPAHs (ND = 1/2 RDL)	mg/kg	370		--	--	--	0.003 U	**0.0152**	**0.0114**	*0.32 U*	**0.17**
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	0.59		--	--	--	**0.0051**	**0.0339**	**0.0071**	*0.415 U*	**0.106**
Polycyclic Aromatic Hydrocarbons (PAHs) - OC Normalized											
2-Methylnaphthalene (OC normalized)	mg/kg-OC	38		--	--	--	6 U	0.14 U	0.467 U	*25 U*	1.18 U
Acenaphthene (OC normalized)	mg/kg-OC	16		--	--	--	6 U	0.14 U	0.467 U	*23 U*	1.18 U
Anthracene (OC normalized)	mg/kg-OC	220		--	--	--	6 U	0.14 U	0.467 U	*48 U*	**1.18**
Benzo(g,h,i)perylene (OC normalized)	mg/kg-OC	31		--	--	--	**7.4**	**1.92**	**0.841**	*200 U*	**1.41**
Fluoranthene (OC normalized)	mg/kg-OC	160		--	--	--	**9.6**	**0.701**	**1.06**	*233 U*	**17.6**
Fluorene (OC normalized)	mg/kg-OC	23		--	--	--	6 U	0.14 U	0.467 U	*24 U*	1.18 U
Indeno(1,2,3-cd)pyrene (OC normalized)	mg/kg-OC	34		--	--	--	6 U	**1.64**	**0.794**	*26 U*	**1.88**
Naphthalene (OC normalized)	mg/kg-OC	99		--	--	--	6 U	0.14 U	0.467 U	*78 U*	1.18 U
Phenanthrene (OC normalized)	mg/kg-OC	100		--	--	--	6 U	**0.36**	**0.607**	*119 U*	**6.47**
Pyrene (OC normalized)	mg/kg-OC	1000		--	--	--	**16**	**0.981**	**1.45**	*159 U*	**9.41**
Benz(a)anthracene (OC normalized)	mg/kg-OC	110		--	--	--	**7.8**	**0.435**	**0.514**	*167 U*	--
Benzo(a)pyrene (OC normalized)	mg/kg-OC	99		--	--	--	**7.4**	**1.03**	**0.779**	*252 U*	**4.65**
Chrysene (OC normalized)	mg/kg-OC	110		--	--	--	**13.8**	**0.607**	**0.903**	*248 U*	**7.06**
Dibenzo(a,h)anthracene (OC normalized)	mg/kg-OC	12		--	--	--	6 U	**1.54**	0.467 U	*44 U*	1.18 U
Total Benzofluoranthenes (OC normalized)	mg/kg-OC	230		--	--	--	--	--	--	*296 U*	--
Total HPAHs (ND = 1/2 RDL) (OC normalized)	mg/kg-OC	960		--	--	--	**80.8**	**10.7**	**8.21**	*296 U*	**55.6**
Total LPAHs (ND = 1/2 RDL) (OC normalized)	mg/kg-OC	370		--	--	--	6 U	**0.71**	**1.78**	*119 U*	**10**
Other Semivolatile Organic Compounds (SVOCs)											
2,4-Dimethylphenol	mg/kg	0.029		--	--	--	--	--	--	*0.029 U*	0.0067 U
4-Methylphenol	mg/kg	0.67		--	--	--	--	--	--	*0.12 U*	0.02 U
Benzoic Acid	mg/kg	0.65		--	--	--	--	--	--	*0.4 U*	0.067 U
Benzyl Alcohol	mg/kg	0.057		--	--	--	--	--	--	*0.025 U*	0.02 U
Benzyl butyl phthalate	mg/kg	4.9		--	--	--	--	--	--	*0.47 U*	0.0067 U
Bis(2-ethylhexyl) phthalate	mg/kg	47		--	--	--	--	--	--	*3.1 U*	**0.13**
Dibenzofuran	mg/kg	15		--	--	--	0.003 U	0.003 U	0.003 U	*0.054 U*	0.02 U
Dimethyl phthalate	mg/kg	53		--	--	--	--	--	--	*0.16 U*	0.0067 U
Hexachlorobenzene	mg/kg	0.38		--	--	--	--	--	--	*0.023 U*	0.0033 J
N-Nitrosodiphenylamine	mg/kg	11		--	--	--	--	--	--	*0.028 U*	**0.0073**
Pentachlorophenol	mg/kg	0.355		--	--	--	--	--	--	*0.1 U*	0.033 U
Phenol	mg/kg	0.42		--	--	--	0.003 U	0.003 U	0.003 U	*0.12 U*	0.034 U
Other Semivolatile Organic Compounds (SVOCs) - OC Normalized											
Benzyl butyl phthalate (OC normalized)	mg/kg-OC	4.9		--	--	--	--	--	--	*174 U*	0.394 U
Bis(2-ethylhexyl) phthalate (OC normalized)	mg/kg-OC	47		--	--	--	--	--	--	*1150 U*	**7.65**
Dimethyl phthalate (OC normalized)	mg/kg-OC	53		--	--	--	--	--	--	*59 U*	0.394 U
Hexachlorobenzene (OC normalized)	mg/kg-OC	0.38		--	--	--	--	--	--	*8.5 U*	0.194 J
N-Nitrosodiphenylamine (OC normalized)	mg/kg-OC	11		--	--	--	--	--	--	*10 U*	**0.429**
Volatile Organic Compounds (VOCs)											
1,2,4-Trichlorobenzene	mg/kg	0.81		--	--	--	--	--	--	*0.013 U*	0.0067 U
1,2-Dichlorobenzene	mg/kg	2.3		--	--	--	--	--	--	*0.019 U*	0.0067 U
1,4-Dichlorobenzene	mg/kg	3.1		--	--	--	--	--	--	*0.026 U*	0.0067 U
Volatile Organic Compounds (VOCs) - OC Normalized											
1,2,4-Trichlorobenzene (OC normalized)	mg/kg-OC	0.81		--	--	--	--	--	--	*4.8 U*	0.394 U
1,2-Dichlorobenzene (OC normalized)	mg/kg-OC	2.3		--	--	--	--	--	--	*7.0 U*	0.394 U
1,4-Dichlorobenzene (OC normalized)	mg/kg-OC	3.1		--	--	--	--	--	--	*9.6 U*	0.394 U
Conventionals											
Total Organic Carbon	%			**1.88**	**1.68**	**1.96**	0.05 U	**2.14**	**0.642**	***0.27***	**1.7**

Table H.3.A. Surface Sediment Analytical Data - Full Dataset - LDW COCs

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Gray - Sample not included as part of the refined dataset.
Pink Shaded - Outside accepted total organic carbon (TOC) range.
Green Shaded - Sample TOC outside range for associated screening level (SL).
Light Blue Shaded - Nondetected result (reporting limit) exceeded Initial SL.
Purple Shaded - Detected result exceeded Initial SL.

			Location	SS108	SS559	SS-130	SS-Comp19	*T117-98-SG*	*T117-99-SG*	*T117-100-SG*	*T117-101-SG*	*T117-102-SG*
			Date	03/10/05	06/30/21	03/01/18	03/05/18	*08/29/08*	*08/29/08*	*08/29/08*	*08/29/08*	*08/29/08*
			Sample	LDW-SS108-01	LDW21-SS559	LDW18-SS-130	LDW18-SS-COMP19	*T117-98-SG*	*T117-99-SG*	*T117-100-SG*	*T117-101-SG*	*T117-102-SG*
			Depth	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	*0 - 6 cm*	*0 - 6 cm*	*0 - 10 cm*	*0 - 10 cm*	*0 - 10 cm*
Analyte	**Unit**	**Initial SL**										
Metals												
Arsenic	mg/kg	7		**11.4**	--	**13.6**	**8.4**	--	--	--	--	--
Cadmium	mg/kg	5.1		0.5 U	--	**0.2 J**	--	--	--	--	--	--
Chromium	mg/kg	260		**29**	--	**28.2**	--	--	--	--	--	--
Copper	mg/kg	390		**61.4**	--	**48.4**	--	--	--	--	--	--
Lead	mg/kg	450		**26**	--	**15.8**	--	--	--	--	--	--
Mercury	mg/kg	0.41		**0.2**	--	**0.15**	--	***0.14***	***0.07***	--	--	--
Zinc	mg/kg	410		**109**	--	**102**	--	--	--	--	--	--
Polychlorinated Biphenyl (PCB) Aroclors												
Total PCB Aroclors (ND = 0)	mg/kg	0.002		**0.128**	**0.171 J**	**0.0677 J**	**0.049 J**	***0.118***	***0.28***	***0.059***	***0.57***	***0.206***
Polychlorinated Biphenyl (PCB) Aroclors - OC Normalized												
Total PCB Aroclors (ND = 0) (OC normalized), within TOC of 0.5-3.5%	mg/kg-OC	12		**4.64**	**22.2 J**	**2.42 J**	**2.82 J**	***6.18***	***15.3***	***1.85***	***21.2***	***5.9***
Polchlorinated Biphenyl (PCB) Congeners												
Total PCB Congeners (ND = 0)	mg/kg	0.002		**0.0691**	--	--	--	--	--	--	--	--
Polchlorinated Biphenyl (PCB) Congeners - OC Normalized												
Total PCB Congeners (ND = 0) (OC normalized), within TOC of 0.5-3.5%	mg/kg-OC	12		**2.5**	--	--	--	--	--	--	--	--
Dioxins/Furans												
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	2E-06		--	--	--	**1.9E-06 J**	--	--	***9.4E-06 J***	--	***6.5E-06 J***
Polycyclic Aromatic Hydrocarbons (PAHs)												
2-Methylnaphthalene	mg/kg	38		0.059 U	--	**0.008 J**	--	--	--	--	--	--
Acenaphthene	mg/kg	16		0.059 U	--	**0.0135 J**	--	--	--	--	--	--
Anthracene	mg/kg	220		**0.035 J**	--	**0.0379**	--	--	--	--	--	--
Benzo(g,h,i)perylene	mg/kg	31		**0.073**	--	**0.0843**	--	--	--	--	--	--
Fluoranthene	mg/kg	160		**0.36**	--	**0.372**	--	--	--	--	--	--
Fluorene	mg/kg	23		0.059 U	--	**0.0173 J**	--	--	--	--	--	--
Naphthalene	mg/kg	99		0.059 U	--	**0.0085 J**	--	--	--	--	--	--
Phenanthrene	mg/kg	100		**0.1**	--	**0.148**	--	--	--	--	--	--
Pyrene	mg/kg	1000		**0.31**	--	**0.282**	--	--	--	--	--	--
Benz(a)anthracene	mg/kg	110		--	--	**0.118**	**0.0336**	--	--	--	--	--
Benzo(a)pyrene	mg/kg	99		**0.15**	--	**0.0936**	**0.0349**	--	--	--	--	--
Chrysene	mg/kg	110		**0.24**	--	**0.202**	**0.0611**	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	12		0.059 U	--	**0.0269 J**	**0.00653**	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	34		**0.1**	--	**0.0719**	**0.0259**	--	--	--	--	--
Total Benzofluoranthenes	mg/kg	230		--	--	--	--	--	--	--	--	--
Total HPAHs (ND = 1/2 RDL)	mg/kg	960		**1.65**	--	**1.53 J**	**0.226**	--	--	--	--	--
Total LPAHs (ND = 1/2 RDL)	mg/kg	370		**0.253 J**	--	**0.233 J**	--	--	--	--	--	--
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	0.59		**0.204**	--	**0.146 J**	**0.0485**	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs) - OC Normalized												
2-Methylnaphthalene (OC normalized)	mg/kg-OC	38		2.1 U	--	**0.29 J**	--	--	--	--	--	--
Acenaphthene (OC normalized)	mg/kg-OC	16		2.1 U	--	**0.48 J**	--	--	--	--	--	--
Anthracene (OC normalized)	mg/kg-OC	220		**1.3 J**	--	**1.4**	--	--	--	--	--	--
Benzo(g,h,i)perylene (OC normalized)	mg/kg-OC	31		**2.6**	--	**3.0**	--	--	--	--	--	--
Fluoranthene (OC normalized)	mg/kg-OC	160		**13**	--	**13**	--	--	--	--	--	--
Fluorene (OC normalized)	mg/kg-OC	23		2.1 U	--	**0.62 J**	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene (OC normalized)	mg/kg-OC	34		**3.6**	--	**2.6**	**1.49**	--	--	--	--	--
Naphthalene (OC normalized)	mg/kg-OC	99		2.1 U	--	**0.30 J**	--	--	--	--	--	--
Phenanthrene (OC normalized)	mg/kg-OC	100		**3.6**	--	**5.3**	--	--	--	--	--	--
Pyrene (OC normalized)	mg/kg-OC	1000		**11**	--	**10**	--	--	--	--	--	--
Benz(a)anthracene (OC normalized)	mg/kg-OC	110		--	--	**4.2**	**1.93**	--	--	--	--	--
Benzo(a)pyrene (OC normalized)	mg/kg-OC	99		**5.4**	--	**3.3**	**2.01**	--	--	--	--	--
Chrysene (OC normalized)	mg/kg-OC	110		**8.7**	--	**7.2**	**3.51**	--	--	--	--	--
Dibenzo(a,h)anthracene (OC normalized)	mg/kg-OC	12		2.1 U	--	**0.96 J**	**0.375**	--	--	--	--	--
Total Benzofluoranthenes (OC normalized)	mg/kg-OC	230		--	--	--	--	--	--	--	--	--
Total HPAHs (ND = 1/2 RDL) (OC normalized)	mg/kg-OC	960		**59.8**	--	**55 J**	**13**	--	--	--	--	--
Total LPAHs (ND = 1/2 RDL) (OC normalized)	mg/kg-OC	370		**9.2 J**	--	**8.3 J**	--	--	--	--	--	--
Other Semivolatile Organic Compounds (SVOCs)												
2,4-Dimethylphenol	mg/kg	0.029		0.0065 U	--	0.0249 U	--	--	--	--	--	--
4-Methylphenol	mg/kg	0.67		0.059 U	--	0.02 U	--	--	--	--	--	--
Benzoic Acid	mg/kg	0.65		0.065 UJ	--	**0.0251 J**	--	--	--	--	--	--
Benzyl Alcohol	mg/kg	0.057		0.033 U	--	**0.0765**	--	--	--	--	--	--
Benzyl butyl phthalate	mg/kg	4.9		0.0065 U	--	0.02 U	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate	mg/kg	47		**0.16**	--	**0.183**	--	--	--	--	--	--
Dibenzofuran	mg/kg	15		0.059 U	--	**0.0091 J**	--	--	--	--	--	--
Dimethyl phthalate	mg/kg	53		0.0065 U	--	0.02 U	--	--	--	--	--	--
Hexachlorobenzene	mg/kg	0.38		0.00098 U	--	0.005 U	--	--	--	--	--	--
N-Nitrosodiphenylamine	mg/kg	11		0.0065 U	--	0.005 U	--	--	--	--	--	--
Pentachlorophenol	mg/kg	0.355		0.033 U	--	0.02 UJ	--	--	--	--	--	--
Phenol	mg/kg	0.42		0.059 U	--	**0.0173 J**	--	--	--	--	--	--
Other Semivolatile Organic Compounds (SVOCs) - OC Normalized												
Benzyl butyl phthalate (OC normalized)	mg/kg-OC	4.9		0.24 U	--	0.71 U	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate (OC normalized)	mg/kg-OC	47		**5.8**	--	**6.5**	--	--	--	--	--	--
Dimethyl phthalate (OC normalized)	mg/kg-OC	53		0.24 U	--	0.71 U	--	--	--	--	--	--
Hexachlorobenzene (OC normalized)	mg/kg-OC	0.38		0.036 U	--	0.18 U	--	--	--	--	--	--
N-Nitrosodiphenylamine (OC normalized)	mg/kg-OC	11		0.24 U	--	0.18 U	--	--	--	--	--	--
Volatile Organic Compounds (VOCs)												
1,2,4-Trichlorobenzene	mg/kg	0.81		0.0065 U	--	0.005 U	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	2.3		0.0065 U	--	0.005 U	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	3.1		0.0065 U	--	**0.001 J**	--	--	--	--	--	--
Volatile Organic Compounds (VOCs) - OC Normalized												
1,2,4-Trichlorobenzene (OC normalized)	mg/kg-OC	0.81		0.24 U	--	0.18 U	--	--	--	--	--	--
1,2-Dichlorobenzene (OC normalized)	mg/kg-OC	2.3		0.24 U	--	0.18 U	--	--	--	--	--	--
1,4-Dichlorobenzene (OC normalized)	mg/kg-OC	3.1		0.24 U	--	**0.036 J**	--	--	--	--	--	--
Conventionals												
Total Organic Carbon	%			**2.76**	**0.77**	**2.8 J**	**1.74 J**	***1.91***	***1.83***	***3.19***	***2.69***	***3.49***

Table H.3.A. Surface Sediment Analytical Data - Full Dataset - LDW COCs

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Gray - Sample not included as part of the refined dataset.
Pink Shaded - Outside accepted total organic carbon (TOC) range.
Green Shaded - Sample TOC outside range for associated screening level (SL).
Light Blue Shaded - Nondetected result (reporting limit) exceeded Initial SL.
Purple Shaded - Detected result exceeded Initial SL.

		Location	***T117-SE-07-G***	***T117-SE-08-G***	***T117-SE-10-G***	***T117-SE-73-G***	***T117-SE-74-G***	***T117-SE-76-G***	***T117-SE-77-G***	***T117-SE-78-G***	***T117-SE-84-G***
		Date	*12/08/03*	*12/08/03*	*12/08/03*	*03/16/04*	*03/16/04*	*06/04/04*	*06/04/04*	*06/04/04*	*09/14/04*
		Sample	*T117-SE07-SG*	*T117-SE08-SG*	*T117-SE10-SG*	*T117-SE73-SG*	*T117-SE74-SG*	*T117-SE76-SG*	*T117-SE77-SG*	*T117-SE78-SG*	*T117-SE84-SG*
		Depth	*0 - 10 cm*	*0 - 10 cm*	*0 - 10 cm*	*0 - 10 cm*	*0 - 10 cm*	*0 - 10 cm*	*0 - 10 cm*	*0 - 10 cm*	*0 - 7 cm*
Analyte	**Unit**	**Initial SL**									
Metals											
Arsenic	mg/kg	7	--	*7 U*	--	--	--	--	--	--	--
Cadmium	mg/kg	5.1	--	*0.3 U*	--	--	--	--	--	--	--
Chromium	mg/kg	260	--	***16.9***	--	--	--	--	--	--	--
Copper	mg/kg	390	--	***28***	--	--	--	--	--	--	--
Lead	mg/kg	450	--	***53***	--	--	--	--	--	--	--
Mercury	mg/kg	0.41	--	***0.07***	--	--	--	--	--	--	--
Zinc	mg/kg	410	--	***68.8***	--	--	--	--	--	--	--
Polychlorinated Biphenyl (PCB) Aroclors											
Total PCB Aroclors (ND = 0)	mg/kg	0.002	***0.087***	***1***	***1.2***	***0.263 J***	***0.123***	***1.4 J***	***1.1 J***	***0.508 J***	***0.088***
Polychlorinated Biphenyl (PCB) Aroclors - OC Normalized											
Total PCB Aroclors (ND = 0) (OC normalized), within TOC of 0.5-3.5%	mg/kg-OC	12	***2.72***	***45.5***	***60***	***8.22 J***	***4.56***	***77.3 J***	***33.4 J***	***39.4 J***	***7.21***
Polchlorinated Biphenyl (PCB) Congeners											
Total PCB Congeners (ND = 0)	mg/kg	0.002	--	--	--	--	--	--	--	--	--
Polchlorinated Biphenyl (PCB) Congeners - OC Normalized											
Total PCB Congeners (ND = 0) (OC normalized), within TOC of 0.5-3.5%	mg/kg-OC	12	--	--	--	--	--	--	--	--	--
Dioxins/Furans											
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	2E-06	--	--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)											
2-Methylnaphthalene	mg/kg	38	--	***0.09***	--	--	--	--	--	--	--
Acenaphthene	mg/kg	16	--	*0.02 U*	--	--	--	--	--	--	--
Anthracene	mg/kg	220	--	*0.02 U*	--	--	--	--	--	--	--
Benzo(g,h,i)perylene	mg/kg	31	--	*0.02 UJ*	--	--	--	--	--	--	--
Fluoranthene	mg/kg	160	--	***0.092***	--	--	--	--	--	--	--
Fluorene	mg/kg	23	--	***0.028***	--	--	--	--	--	--	--
Naphthalene	mg/kg	99	--	***0.072***	--	--	--	--	--	--	--
Phenanthrene	mg/kg	100	--	***0.07***	--	--	--	--	--	--	--
Pyrene	mg/kg	1000	--	***0.087***	--	--	--	--	--	--	--
Benz(a)anthracene	mg/kg	110	--	***0.038***	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	99	--	***0.044 J***	--	--	--	--	--	--	--
Chrysene	mg/kg	110	--	***0.071***	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	12	--	***0.022 J***	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	34	--	***0.066***	--	--	--	--	--	--	--
Total Benzofluoranthenes	mg/kg	230	--	--	--	--	--	--	--	--	--
Total HPAHs (ND = 1/2 RDL)	mg/kg	960	--	***0.567 J***	--	--	--	--	--	--	--
Total LPAHs (ND = 1/2 RDL)	mg/kg	370	--	***0.2***	--	--	--	--	--	--	--
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	0.59	--	***0.071 J***	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs) - OC Normalized											
2-Methylnaphthalene (OC normalized)	mg/kg-OC	38	--	***4.09***	--	--	--	--	--	--	--
Acenaphthene (OC normalized)	mg/kg-OC	16	--	*0.909 U*	--	--	--	--	--	--	--
Anthracene (OC normalized)	mg/kg-OC	220	--	*0.909 U*	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (OC normalized)	mg/kg-OC	31	--	*0.909 UJ*	--	--	--	--	--	--	--
Fluoranthene (OC normalized)	mg/kg-OC	160	--	***4.18***	--	--	--	--	--	--	--
Fluorene (OC normalized)	mg/kg-OC	23	--	***1.27***	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene (OC normalized)	mg/kg-OC	34	--	***3***	--	--	--	--	--	--	--
Naphthalene (OC normalized)	mg/kg-OC	99	--	***3.27***	--	--	--	--	--	--	--
Phenanthrene (OC normalized)	mg/kg-OC	100	--	***3.18***	--	--	--	--	--	--	--
Pyrene (OC normalized)	mg/kg-OC	1000	--	***3.95***	--	--	--	--	--	--	--
Benz(a)anthracene (OC normalized)	mg/kg-OC	110	--	***1.73***	--	--	--	--	--	--	--
Benzo(a)pyrene (OC normalized)	mg/kg-OC	99	--	***2 J***	--	--	--	--	--	--	--
Chrysene (OC normalized)	mg/kg-OC	110	--	***3.23***	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (OC normalized)	mg/kg-OC	12	--	***1 J***	--	--	--	--	--	--	--
Total Benzofluoranthenes (OC normalized)	mg/kg-OC	230	--	--	--	--	--	--	--	--	--
Total HPAHs (ND = 1/2 RDL) (OC normalized)	mg/kg-OC	960	--	***25.8 J***	--	--	--	--	--	--	--
Total LPAHs (ND = 1/2 RDL) (OC normalized)	mg/kg-OC	370	--	***9.09***	--	--	--	--	--	--	--
Other Semivolatile Organic Compounds (SVOCs)											
2,4-Dimethylphenol	mg/kg	0.029	--	*0.02 U*	--	--	--	--	--	--	--
4-Methylphenol	mg/kg	0.67	--	*0.02 U*	--	--	--	--	--	--	--
Benzoic Acid	mg/kg	0.65	--	*0.2 U*	--	--	--	--	--	--	--
Benzyl Alcohol	mg/kg	0.057	--	***0.072***	--	--	--	--	--	--	--
Benzyl butyl phthalate	mg/kg	4.9	--	***0.037***	--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate	mg/kg	47	--	***0.14***	--	--	--	--	--	--	--
Dibenzofuran	mg/kg	15	--	*0.02 U*	--	--	--	--	--	--	--
Dimethyl phthalate	mg/kg	53	--	*0.02 U*	--	--	--	--	--	--	--
Hexachlorobenzene	mg/kg	0.38	--	*0.00097 U*	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	mg/kg	11	--	*0.02 U*	--	--	--	--	--	--	--
Pentachlorophenol	mg/kg	0.355	--	*0.099 U*	--	--	--	--	--	--	--
Phenol	mg/kg	0.42	--	*0.02 U*	--	--	--	--	--	--	--
Other Semivolatile Organic Compounds (SVOCs) - OC Normalized											
Benzyl butyl phthalate (OC normalized)	mg/kg-OC	4.9	--	***1.68***	--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate (OC normalized)	mg/kg-OC	47	--	***6.36***	--	--	--	--	--	--	--
Dimethyl phthalate (OC normalized)	mg/kg-OC	53	--	*0.909 U*	--	--	--	--	--	--	--
Hexachlorobenzene (OC normalized)	mg/kg-OC	0.38	--	*0.0441 U*	--	--	--	--	--	--	--
N-Nitrosodiphenylamine (OC normalized)	mg/kg-OC	11	--	*0.909 U*	--	--	--	--	--	--	--
Volatile Organic Compounds (VOCs)											
1,2,4-Trichlorobenzene	mg/kg	0.81	--	*0.0054 UJ*	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	2.3	--	*0.0011 U*	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	3.1	--	*0.0011 U*	--	--	--	--	--	--	--
Volatile Organic Compounds (VOCs) - OC Normalized											
1,2,4-Trichlorobenzene (OC normalized)	mg/kg-OC	0.81	--	*0.245 UJ*	--	--	--	--	--	--	--
1,2-Dichlorobenzene (OC normalized)	mg/kg-OC	2.3	--	*0.05 U*	--	--	--	--	--	--	--
1,4-Dichlorobenzene (OC normalized)	mg/kg-OC	3.1	--	*0.05 U*	--	--	--	--	--	--	--
Conventionals											
Total Organic Carbon	%		***3.2***	***2.2***	***2***	***3.2***	***2.7***	***1.81***	***3.29***	***1.29***	***1.22***

Table H.3.A. Surface Sediment Analytical Data - Full Dataset - LDW COCs

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Gray - Sample not included as part of the refined dataset.
Pink Shaded - Outside accepted total organic carbon (TOC) range.
Green Shaded - Sample TOC outside range for associated screening level (SL).
Light Blue Shaded - Nondetected result (reporting limit) exceeded Initial SL.
Purple Shaded - Detected result exceeded Initial SL.

			Location	T117-SE-85-G	T117-SE-86-G	T117-SE-89-G	T117-SE-91-G	T117-SE-93-G	T117-SG-A1-PreCon	T117-SG-A1-PostCon	T117-SG-A1-PreOp	T117-SG-A2-PreCon
			Date	09/14/04	09/14/04	09/14/04	09/14/04	09/14/04	07/15/15	08/10/15	07/12/16	07/15/15
			Sample	T117-SE85-SG	T117-SE86-SG	T117-SE89-SG	T117-SE91-SG	T117-SE93-SG	SD0100	SD0110	SD0127	SD0101
			Depth	0 - 7 cm	0 - 7 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm
Analyte	**Unit**	**Initial SL**										
Metals												
Arsenic	mg/kg	7		--	--	--	--	--	--	--	--	--
Cadmium	mg/kg	5.1		--	--	--	--	--	--	--	--	--
Chromium	mg/kg	260		--	--	--	--	--	--	--	--	--
Copper	mg/kg	390		--	--	--	--	--	--	--	--	--
Lead	mg/kg	450		--	--	--	--	--	--	--	--	--
Mercury	mg/kg	0.41		--	--	--	--	--	--	--	--	--
Zinc	mg/kg	410		--	--	--	--	--	--	--	--	--
Polychlorinated Biphenyl (PCB) Aroclors												
Total PCB Aroclors (ND = 0)	mg/kg	0.002		***0.117***	***0.102***	***0.7***	***0.128***	***0.203***	***0.097***	***0.096***	**0.062 J**	***0.075***
Polychlorinated Biphenyl (PCB) Aroclors - OC Normalized												
Total PCB Aroclors (ND = 0) (OC normalized), within TOC of 0.5-3.5%	mg/kg-OC	12		***3.62***	***3.31***	***92.1***	***4.21***	***7.49***	***3.51***	***3.5***	**2.24 J**	***2.76***
Polchlorinated Biphenyl (PCB) Congeners												
Total PCB Congeners (ND = 0)	mg/kg	0.002		--	--	--	--	--	--	--	--	--
Polchlorinated Biphenyl (PCB) Congeners - OC Normalized												
Total PCB Congeners (ND = 0) (OC normalized), within TOC of 0.5-3.5%	mg/kg-OC	12		--	--	--	--	--	--	--	--	--
Dioxins/Furans												
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	2E-06		--	--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)												
2-Methylnaphthalene	mg/kg	38		--	--	--	--	--	--	--	--	--
Acenaphthene	mg/kg	16		--	--	--	--	--	--	--	--	--
Anthracene	mg/kg	220		--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene	mg/kg	31		--	--	--	--	--	--	--	--	--
Fluoranthene	mg/kg	160		--	--	--	--	--	--	--	--	--
Fluorene	mg/kg	23		--	--	--	--	--	--	--	--	--
Naphthalene	mg/kg	99		--	--	--	--	--	--	--	--	--
Phenanthrene	mg/kg	100		--	--	--	--	--	--	--	--	--
Pyrene	mg/kg	1000		--	--	--	--	--	--	--	--	--
Benz(a)anthracene	mg/kg	110		--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	99		--	--	--	--	--	--	--	--	--
Chrysene	mg/kg	110		--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	12		--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	34		--	--	--	--	--	--	--	--	--
Total Benzofluoranthenes	mg/kg	230		--	--	--	--	--	--	--	--	--
Total HPAHs (ND = 1/2 RDL)	mg/kg	960		--	--	--	--	--	--	--	--	--
Total LPAHs (ND = 1/2 RDL)	mg/kg	370		--	--	--	--	--	--	--	--	--
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	0.59		--	--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs) - OC Normalized												
2-Methylnaphthalene (OC normalized)	mg/kg-OC	38		--	--	--	--	--	--	--	--	--
Acenaphthene (OC normalized)	mg/kg-OC	16		--	--	--	--	--	--	--	--	--
Anthracene (OC normalized)	mg/kg-OC	220		--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (OC normalized)	mg/kg-OC	31		--	--	--	--	--	--	--	--	--
Fluoranthene (OC normalized)	mg/kg-OC	160		--	--	--	--	--	--	--	--	--
Fluorene (OC normalized)	mg/kg-OC	23		--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene (OC normalized)	mg/kg-OC	34		--	--	--	--	--	--	--	--	--
Naphthalene (OC normalized)	mg/kg-OC	99		--	--	--	--	--	--	--	--	--
Phenanthrene (OC normalized)	mg/kg-OC	100		--	--	--	--	--	--	--	--	--
Pyrene (OC normalized)	mg/kg-OC	1000		--	--	--	--	--	--	--	--	--
Benz(a)anthracene (OC normalized)	mg/kg-OC	110		--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (OC normalized)	mg/kg-OC	99		--	--	--	--	--	--	--	--	--
Chrysene (OC normalized)	mg/kg-OC	110		--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (OC normalized)	mg/kg-OC	12		--	--	--	--	--	--	--	--	--
Total Benzofluoranthenes (OC normalized)	mg/kg-OC	230		--	--	--	--	--	--	--	--	--
Total HPAHs (ND = 1/2 RDL) (OC normalized)	mg/kg-OC	960		--	--	--	--	--	--	--	--	--
Total LPAHs (ND = 1/2 RDL) (OC normalized)	mg/kg-OC	370		--	--	--	--	--	--	--	--	--
Other Semivolatile Organic Compounds (SVOCs)												
2,4-Dimethylphenol	mg/kg	0.029		--	--	--	--	--	--	--	--	--
4-Methylphenol	mg/kg	0.67		--	--	--	--	--	--	--	--	--
Benzoic Acid	mg/kg	0.65		--	--	--	--	--	--	--	--	--
Benzyl Alcohol	mg/kg	0.057		--	--	--	--	--	--	--	--	--
Benzyl butyl phthalate	mg/kg	4.9		--	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate	mg/kg	47		--	--	--	--	--	--	--	--	--
Dibenzofuran	mg/kg	15		--	--	--	--	--	--	--	--	--
Dimethyl phthalate	mg/kg	53		--	--	--	--	--	--	--	--	--
Hexachlorobenzene	mg/kg	0.38		--	--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	mg/kg	11		--	--	--	--	--	--	--	--	--
Pentachlorophenol	mg/kg	0.355		--	--	--	--	--	--	--	--	--
Phenol	mg/kg	0.42		--	--	--	--	--	--	--	--	--
Other Semivolatile Organic Compounds (SVOCs) - OC Normalized												
Benzyl butyl phthalate (OC normalized)	mg/kg-OC	4.9		--	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate (OC normalized)	mg/kg-OC	47		--	--	--	--	--	--	--	--	--
Dimethyl phthalate (OC normalized)	mg/kg-OC	53		--	--	--	--	--	--	--	--	--
Hexachlorobenzene (OC normalized)	mg/kg-OC	0.38		--	--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine (OC normalized)	mg/kg-OC	11		--	--	--	--	--	--	--	--	--
Volatile Organic Compounds (VOCs)												
1,2,4-Trichlorobenzene	mg/kg	0.81		--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	2.3		--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	3.1		--	--	--	--	--	--	--	--	--
Volatile Organic Compounds (VOCs) - OC Normalized												
1,2,4-Trichlorobenzene (OC normalized)	mg/kg-OC	0.81		--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene (OC normalized)	mg/kg-OC	2.3		--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene (OC normalized)	mg/kg-OC	3.1		--	--	--	--	--	--	--	--	--
Conventionals												
Total Organic Carbon	%			***3.23***	***3.08***	***0.76***	***3.04***	***2.71***	***2.76***	***2.74 J***	**2.77**	***2.72***

Table H.3.A. Surface Sediment Analytical Data - Full Dataset - LDW COCs

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Gray - Sample not included as part of the refined dataset.
Pink Shaded - Outside accepted total organic carbon (TOC) range.
Green Shaded - Sample TOC outside range for associated screening level (SL).
Light Blue Shaded - Nondetected result (reporting limit) exceeded Initial SL.
Purple Shaded - Detected result exceeded Initial SL.

			Location	T117-SG-A2-PostCon	T117-SG-A2-PreOp	T117-SG-A3-PreCon	T117-SG-A3-PostCon	T117-SG-A3-PreOp	T117-SG-B1-PreCon	T117-SG-B1-PostCon	T117-SG-B1-PreOp
			Date	08/10/15	07/12/16	07/15/15	08/10/15	07/12/16	07/15/15	08/10/15	07/12/16
			Sample	SD0111	SD0128	SD0102	SD0112	SD0129	SD0103	SD0113	SD0123
			Depth	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm
Analyte	**Unit**	**Initial SL**									
Metals											
Arsenic	mg/kg	7		--	--	--	--	--	--	--	--
Cadmium	mg/kg	5.1		--	--	--	--	--	--	--	--
Chromium	mg/kg	260		--	--	--	--	--	--	--	--
Copper	mg/kg	390		--	--	--	--	--	--	--	--
Lead	mg/kg	450		--	--	--	--	--	--	--	--
Mercury	mg/kg	0.41		--	--	--	--	--	--	--	--
Zinc	mg/kg	410		--	--	--	--	--	--	--	--
Polychlorinated Biphenyl (PCB) Aroclors											
Total PCB Aroclors (ND = 0)	mg/kg	0.002		***0.108 J***	***0.071 J***	***0.097***	***0.096***	**0.062 J**	***0.124***	***0.119***	**0.064 J**
Polychlorinated Biphenyl (PCB) Aroclors - OC Normalized											
Total PCB Aroclors (ND = 0) (OC normalized), within TOC of 0.5-3.5%	mg/kg-OC	12		***3.6 J***	***2.72 J***	***2.75***	***2.95***	**3.04 J**	***4.12***	***4.05***	**2.02 J**
Polchlorinated Biphenyl (PCB) Congeners											
Total PCB Congeners (ND = 0)	mg/kg	0.002		--	--	--	--	--	--	--	--
Polchlorinated Biphenyl (PCB) Congeners - OC Normalized											
Total PCB Congeners (ND = 0) (OC normalized), within TOC of 0.5-3.5%	mg/kg-OC	12		--	--	--	--	--	--	--	--
Dioxins/Furans											
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	2E-06		--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)											
2-Methylnaphthalene	mg/kg	38		--	--	--	--	--	--	--	--
Acenaphthene	mg/kg	16		--	--	--	--	--	--	--	--
Anthracene	mg/kg	220		--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene	mg/kg	31		--	--	--	--	--	--	--	--
Fluoranthene	mg/kg	160		--	--	--	--	--	--	--	--
Fluorene	mg/kg	23		--	--	--	--	--	--	--	--
Naphthalene	mg/kg	99		--	--	--	--	--	--	--	--
Phenanthrene	mg/kg	100		--	--	--	--	--	--	--	--
Pyrene	mg/kg	1000		--	--	--	--	--	--	--	--
Benz(a)anthracene	mg/kg	110		--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	99		--	--	--	--	--	--	--	--
Chrysene	mg/kg	110		--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	12		--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	34		--	--	--	--	--	--	--	--
Total Benzofluoranthenes	mg/kg	230		--	--	--	--	--	--	--	--
Total HPAHs (ND = 1/2 RDL)	mg/kg	960		--	--	--	--	--	--	--	--
Total LPAHs (ND = 1/2 RDL)	mg/kg	370		--	--	--	--	--	--	--	--
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	0.59		--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs) - OC Normalized											
2-Methylnaphthalene (OC normalized)	mg/kg-OC	38		--	--	--	--	--	--	--	--
Acenaphthene (OC normalized)	mg/kg-OC	16		--	--	--	--	--	--	--	--
Anthracene (OC normalized)	mg/kg-OC	220		--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (OC normalized)	mg/kg-OC	31		--	--	--	--	--	--	--	--
Fluoranthene (OC normalized)	mg/kg-OC	160		--	--	--	--	--	--	--	--
Fluorene (OC normalized)	mg/kg-OC	23		--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene (OC normalized)	mg/kg-OC	34		--	--	--	--	--	--	--	--
Naphthalene (OC normalized)	mg/kg-OC	99		--	--	--	--	--	--	--	--
Phenanthrene (OC normalized)	mg/kg-OC	100		--	--	--	--	--	--	--	--
Pyrene (OC normalized)	mg/kg-OC	1000		--	--	--	--	--	--	--	--
Benz(a)anthracene (OC normalized)	mg/kg-OC	110		--	--	--	--	--	--	--	--
Benzo(a)pyrene (OC normalized)	mg/kg-OC	99		--	--	--	--	--	--	--	--
Chrysene (OC normalized)	mg/kg-OC	110		--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (OC normalized)	mg/kg-OC	12		--	--	--	--	--	--	--	--
Total Benzofluoranthenes (OC normalized)	mg/kg-OC	230		--	--	--	--	--	--	--	--
Total HPAHs (ND = 1/2 RDL) (OC normalized)	mg/kg-OC	960		--	--	--	--	--	--	--	--
Total LPAHs (ND = 1/2 RDL) (OC normalized)	mg/kg-OC	370		--	--	--	--	--	--	--	--
Other Semivolatile Organic Compounds (SVOCs)											
2,4-Dimethylphenol	mg/kg	0.029		--	--	--	--	--	--	--	--
4-Methylphenol	mg/kg	0.67		--	--	--	--	--	--	--	--
Benzoic Acid	mg/kg	0.65		--	--	--	--	--	--	--	--
Benzyl Alcohol	mg/kg	0.057		--	--	--	--	--	--	--	--
Benzyl butyl phthalate	mg/kg	4.9		--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate	mg/kg	47		--	--	--	--	--	--	--	--
Dibenzofuran	mg/kg	15		--	--	--	--	--	--	--	--
Dimethyl phthalate	mg/kg	53		--	--	--	--	--	--	--	--
Hexachlorobenzene	mg/kg	0.38		--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	mg/kg	11		--	--	--	--	--	--	--	--
Pentachlorophenol	mg/kg	0.355		--	--	--	--	--	--	--	--
Phenol	mg/kg	0.42		--	--	--	--	--	--	--	--
Other Semivolatile Organic Compounds (SVOCs) - OC Normalized											
Benzyl butyl phthalate (OC normalized)	mg/kg-OC	4.9		--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate (OC normalized)	mg/kg-OC	47		--	--	--	--	--	--	--	--
Dimethyl phthalate (OC normalized)	mg/kg-OC	53		--	--	--	--	--	--	--	--
Hexachlorobenzene (OC normalized)	mg/kg-OC	0.38		--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine (OC normalized)	mg/kg-OC	11		--	--	--	--	--	--	--	--
Volatile Organic Compounds (VOCs)											
1,2,4-Trichlorobenzene	mg/kg	0.81		--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	2.3		--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	3.1		--	--	--	--	--	--	--	--
Volatile Organic Compounds (VOCs) - OC Normalized											
1,2,4-Trichlorobenzene (OC normalized)	mg/kg-OC	0.81		--	--	--	--	--	--	--	--
1,2-Dichlorobenzene (OC normalized)	mg/kg-OC	2.3		--	--	--	--	--	--	--	--
1,4-Dichlorobenzene (OC normalized)	mg/kg-OC	3.1		--	--	--	--	--	--	--	--
Conventionals											
Total Organic Carbon	%			***3 J***	***2.61***	***3.53***	***3.25 J***	**2.04**	***3.01***	***2.94 J***	**3.17**

Table H.3.A. Surface Sediment Analytical Data - Full Dataset - LDW COCs

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Gray - Sample not included as part of the refined dataset.
Pink Shaded - Outside accepted total organic carbon (TOC) range.
Green Shaded - Sample TOC outside range for associated screening level (SL).
Light Blue Shaded - Nondetected result (reporting limit) exceeded Initial SL.
Purple Shaded - Detected result exceeded Initial SL.

			Location	*T117-SG-B2-PreCon*	*T117-SG-B2-PostCon*	T117-SG-B2-PreOp	*T117-SG-B3-PreCon*	*T117-SG-B3-PostCon*	T117-SG-B3-PreOp	*T117-SG-C1-PostCon*	T117-SG-C1-PreOp
			Date	*07/15/15*	*08/10/15*	07/12/16	*07/15/15*	*08/10/15*	07/12/16	*08/10/15*	07/12/16
			Sample	*SD0104*	*SD0114*	SD0121	*SD0105*	*SD0115*	SD0120	*SD0116*	SD0126
			Depth	*0 - 10 cm*	*0 - 10 cm*	0 - 10 cm	*0 - 10 cm*	*0 - 10 cm*	0 - 10 cm	*0 - 10 cm*	0 - 10 cm
Analyte	**Unit**	**Initial SL**									
Metals											
Arsenic	mg/kg	7		--	--	--	--	--	--	--	--
Cadmium	mg/kg	5.1		--	--	--	--	--	--	--	--
Chromium	mg/kg	260		--	--	--	--	--	--	--	--
Copper	mg/kg	390		--	--	--	--	--	--	--	--
Lead	mg/kg	450		--	--	--	--	--	--	--	--
Mercury	mg/kg	0.41		--	--	--	--	--	--	--	--
Zinc	mg/kg	410		--	--	--	--	--	--	--	--
Polychlorinated Biphenyl (PCB) Aroclors											
Total PCB Aroclors (ND = 0)	mg/kg	0.002		***0.088***	***0.107***	**0.074 J**	***0.095***	***0.113***	**0.061 J**	***0.086***	**0.069 J**
Polychlorinated Biphenyl (PCB) Aroclors - OC Normalized											
Total PCB Aroclors (ND = 0) (OC normalized), within TOC of 0.5-3.5%	mg/kg-OC	12		***3.26***	***3.35***	**2.11 J**	***2.89***	***3.38***	**1.68 J**	***3.17***	**3.92 J**
Polchlorinated Biphenyl (PCB) Congeners											
Total PCB Congeners (ND = 0)	mg/kg	0.002		--	--	--	--	--	--	--	--
Polchlorinated Biphenyl (PCB) Congeners - OC Normalized											
Total PCB Congeners (ND = 0) (OC normalized), within TOC of 0.5-3.5%	mg/kg-OC	12		--	--	--	--	--	--	--	--
Dioxins/Furans											
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	2E-06		--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)											
2-Methylnaphthalene	mg/kg	38		--	--	--	--	--	--	--	--
Acenaphthene	mg/kg	16		--	--	--	--	--	--	--	--
Anthracene	mg/kg	220		--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene	mg/kg	31		--	--	--	--	--	--	--	--
Fluoranthene	mg/kg	160		--	--	--	--	--	--	--	--
Fluorene	mg/kg	23		--	--	--	--	--	--	--	--
Naphthalene	mg/kg	99		--	--	--	--	--	--	--	--
Phenanthrene	mg/kg	100		--	--	--	--	--	--	--	--
Pyrene	mg/kg	1000		--	--	--	--	--	--	--	--
Benz(a)anthracene	mg/kg	110		--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	99		--	--	--	--	--	--	--	--
Chrysene	mg/kg	110		--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	12		--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	34		--	--	--	--	--	--	--	--
Total Benzofluoranthenes	mg/kg	230		--	--	--	--	--	--	--	--
Total HPAHs (ND = 1/2 RDL)	mg/kg	960		--	--	--	--	--	--	--	--
Total LPAHs (ND = 1/2 RDL)	mg/kg	370		--	--	--	--	--	--	--	--
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	0.59		--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs) - OC Normalized											
2-Methylnaphthalene (OC normalized)	mg/kg-OC	38		--	--	--	--	--	--	--	--
Acenaphthene (OC normalized)	mg/kg-OC	16		--	--	--	--	--	--	--	--
Anthracene (OC normalized)	mg/kg-OC	220		--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (OC normalized)	mg/kg-OC	31		--	--	--	--	--	--	--	--
Fluoranthene (OC normalized)	mg/kg-OC	160		--	--	--	--	--	--	--	--
Fluorene (OC normalized)	mg/kg-OC	23		--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene (OC normalized)	mg/kg-OC	34		--	--	--	--	--	--	--	--
Naphthalene (OC normalized)	mg/kg-OC	99		--	--	--	--	--	--	--	--
Phenanthrene (OC normalized)	mg/kg-OC	100		--	--	--	--	--	--	--	--
Pyrene (OC normalized)	mg/kg-OC	1000		--	--	--	--	--	--	--	--
Benz(a)anthracene (OC normalized)	mg/kg-OC	110		--	--	--	--	--	--	--	--
Benzo(a)pyrene (OC normalized)	mg/kg-OC	99		--	--	--	--	--	--	--	--
Chrysene (OC normalized)	mg/kg-OC	110		--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (OC normalized)	mg/kg-OC	12		--	--	--	--	--	--	--	--
Total Benzofluoranthenes (OC normalized)	mg/kg-OC	230		--	--	--	--	--	--	--	--
Total HPAHs (ND = 1/2 RDL) (OC normalized)	mg/kg-OC	960		--	--	--	--	--	--	--	--
Total LPAHs (ND = 1/2 RDL) (OC normalized)	mg/kg-OC	370		--	--	--	--	--	--	--	--
Other Semivolatile Organic Compounds (SVOCs)											
2,4-Dimethylphenol	mg/kg	0.029		--	--	--	--	--	--	--	--
4-Methylphenol	mg/kg	0.67		--	--	--	--	--	--	--	--
Benzoic Acid	mg/kg	0.65		--	--	--	--	--	--	--	--
Benzyl Alcohol	mg/kg	0.057		--	--	--	--	--	--	--	--
Benzyl butyl phthalate	mg/kg	4.9		--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate	mg/kg	47		--	--	--	--	--	--	--	--
Dibenzofuran	mg/kg	15		--	--	--	--	--	--	--	--
Dimethyl phthalate	mg/kg	53		--	--	--	--	--	--	--	--
Hexachlorobenzene	mg/kg	0.38		--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	mg/kg	11		--	--	--	--	--	--	--	--
Pentachlorophenol	mg/kg	0.355		--	--	--	--	--	--	--	--
Phenol	mg/kg	0.42		--	--	--	--	--	--	--	--
Other Semivolatile Organic Compounds (SVOCs) - OC Normalized											
Benzyl butyl phthalate (OC normalized)	mg/kg-OC	4.9		--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate (OC normalized)	mg/kg-OC	47		--	--	--	--	--	--	--	--
Dimethyl phthalate (OC normalized)	mg/kg-OC	53		--	--	--	--	--	--	--	--
Hexachlorobenzene (OC normalized)	mg/kg-OC	0.38		--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine (OC normalized)	mg/kg-OC	11		--	--	--	--	--	--	--	--
Volatile Organic Compounds (VOCs)											
1,2,4-Trichlorobenzene	mg/kg	0.81		--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	2.3		--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	3.1		--	--	--	--	--	--	--	--
Volatile Organic Compounds (VOCs) - OC Normalized											
1,2,4-Trichlorobenzene (OC normalized)	mg/kg-OC	0.81		--	--	--	--	--	--	--	--
1,2-Dichlorobenzene (OC normalized)	mg/kg-OC	2.3		--	--	--	--	--	--	--	--
1,4-Dichlorobenzene (OC normalized)	mg/kg-OC	3.1		--	--	--	--	--	--	--	--
Conventionals											
Total Organic Carbon	%			***2.7***	***3.19 J***	**3.51**	***3.29***	***3.34 J***	**3.64**	***2.71 J***	**1.76**

Table H.3.A. Surface Sediment Analytical Data - Full Dataset - LDW COCs

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Gray - Sample not included as part of the refined dataset.
Pink Shaded - Outside accepted total organic carbon (TOC) range.
Green Shaded - Sample TOC outside range for associated screening level (SL).
Light Blue Shaded - Nondetected result (reporting limit) exceeded Initial SL.
Purple Shaded - Detected result exceeded Initial SL.

			Location	T117-SG-C2-PreCon	T117-SG-C2-PostCon	T117-SG-C2-PreOp	T117-SG-C3-PreCon	T117-SG-C3-PostCon	T117-SG-C3-PreOp	TRANS-A-SED	TRANS-B-SED
			Date	07/15/15	08/10/15	07/12/16	07/15/15	08/10/15	07/12/16	03/12/08	03/12/08
			Sample	SD0107	SD0117	SD0124	SD0108	SD0118	SD0125	TRANS-A-SED	TRANS-B-SED
			Depth	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm
Analyte	**Unit**	**Initial SL**									
Metals											
Arsenic	mg/kg	7		--	--	--	--	--	--	***13 J***	***18.5 J***
Cadmium	mg/kg	5.1		--	--	--	--	--	--	***0.201***	***0.311***
Chromium	mg/kg	260		--	--	--	--	--	--	***25.5***	***28.7***
Copper	mg/kg	390		--	--	--	--	--	--	***42.5 J***	***66.9 J***
Lead	mg/kg	450		--	--	--	--	--	--	***50***	***37.7***
Mercury	mg/kg	0.41		--	--	--	--	--	--	***0.303***	***0.154***
Zinc	mg/kg	410		--	--	--	--	--	--	***83.8 J***	***104 J***
Polychlorinated Biphenyl (PCB) Aroclors											
Total PCB Aroclors (ND = 0)	mg/kg	0.002		***0.094***	***0.104***	**0.064 J**	***0.115***	***0.087***	**0.07 J**	***43.4***	***16.6***
Polychlorinated Biphenyl (PCB) Aroclors - OC Normalized											
Total PCB Aroclors (ND = 0) (OC normalized), within TOC of 0.5-3.5%	mg/kg-OC	12		***2.75***	***3.87***	**2.92 J**	***4.6***	***4.92***	**2.68 J**	***85 J***	***34.1 J***
Polchlorinated Biphenyl (PCB) Congeners											
Total PCB Congeners (ND = 0)	mg/kg	0.002		--	--	--	--	--	--	--	--
Polchlorinated Biphenyl (PCB) Congeners - OC Normalized											
Total PCB Congeners (ND = 0) (OC normalized), within TOC of 0.5-3.5%	mg/kg-OC	12		--	--	--	--	--	--	--	--
Dioxins/Furans											
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	2E-06		--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)											
2-Methylnaphthalene	mg/kg	38		--	--	--	--	--	--	***0.0092 J***	***0.0047 J***
Acenaphthene	mg/kg	16		--	--	--	--	--	--	***0.004 J***	***0.007 J***
Anthracene	mg/kg	220		--	--	--	--	--	--	***0.031 J***	***0.034 J***
Benzo(g,h,i)perylene	mg/kg	31		--	--	--	--	--	--	***0.063 J***	***0.081 J***
Fluoranthene	mg/kg	160		--	--	--	--	--	--	***0.18 J***	***0.23 J***
Fluorene	mg/kg	23		--	--	--	--	--	--	***0.0068 J***	***0.011 J***
Naphthalene	mg/kg	99		--	--	--	--	--	--	***0.011 J***	***0.006 J***
Phenanthrene	mg/kg	100		--	--	--	--	--	--	***0.063 J***	***0.12 J***
Pyrene	mg/kg	1000		--	--	--	--	--	--	***0.15 J***	***0.2 J***
Benz(a)anthracene	mg/kg	110		--	--	--	--	--	--	***0.084 J***	***0.097 J***
Benzo(a)pyrene	mg/kg	99		--	--	--	--	--	--	***0.093 J***	***0.1 J***
Chrysene	mg/kg	110		--	--	--	--	--	--	***0.16 J***	***0.19 J***
Dibenzo(a,h)anthracene	mg/kg	12		--	--	--	--	--	--	***0.015 J***	***0.02 J***
Indeno(1,2,3-cd)pyrene	mg/kg	34		--	--	--	--	--	--	***0.07 J***	***0.094 J***
Total Benzofluoranthenes	mg/kg	230		--	--	--	--	--	--	--	--
Total HPAHs (ND = 1/2 RDL)	mg/kg	960		--	--	--	--	--	--	***1.03 J***	***1.24 J***
Total LPAHs (ND = 1/2 RDL)	mg/kg	370		--	--	--	--	--	--	***0.129***	***0.189***
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	0.59		--	--	--	--	--	--	***0.133 J***	***0.146 J***
Polycyclic Aromatic Hydrocarbons (PAHs) - OC Normalized											
2-Methylnaphthalene (OC normalized)	mg/kg-OC	38		--	--	--	--	--	--	***0.46 J***	***0.24 J***
Acenaphthene (OC normalized)	mg/kg-OC	16		--	--	--	--	--	--	***0.2 J***	***0.35 J***
Anthracene (OC normalized)	mg/kg-OC	220		--	--	--	--	--	--	***1.6 J***	***1.7 J***
Benzo(g,h,i)perylene (OC normalized)	mg/kg-OC	31		--	--	--	--	--	--	***3.2 J***	***4.1 J***
Fluoranthene (OC normalized)	mg/kg-OC	160		--	--	--	--	--	--	***9 J***	***12 J***
Fluorene (OC normalized)	mg/kg-OC	23		--	--	--	--	--	--	***0.34 J***	***0.55 J***
Indeno(1,2,3-cd)pyrene (OC normalized)	mg/kg-OC	34		--	--	--	--	--	--	***3.5 J***	***4.7 J***
Naphthalene (OC normalized)	mg/kg-OC	99		--	--	--	--	--	--	***0.55 J***	***0.3 J***
Phenanthrene (OC normalized)	mg/kg-OC	100		--	--	--	--	--	--	***3.2 J***	***6 J***
Pyrene (OC normalized)	mg/kg-OC	1000		--	--	--	--	--	--	***7.5 J***	***10 J***
Benz(a)anthracene (OC normalized)	mg/kg-OC	110		--	--	--	--	--	--	***4.2 J***	***4.8 J***
Benzo(a)pyrene (OC normalized)	mg/kg-OC	99		--	--	--	--	--	--	***4.7 J***	***5 J***
Chrysene (OC normalized)	mg/kg-OC	110		--	--	--	--	--	--	***8 J***	***9.5 J***
Dibenzo(a,h)anthracene (OC normalized)	mg/kg-OC	12		--	--	--	--	--	--	***0.75 J***	***1 J***
Total Benzofluoranthenes (OC normalized)	mg/kg-OC	230		--	--	--	--	--	--	--	--
Total HPAHs (ND = 1/2 RDL) (OC normalized)	mg/kg-OC	960		--	--	--	--	--	--	***51 JJ***	***62 JJ***
Total LPAHs (ND = 1/2 RDL) (OC normalized)	mg/kg-OC	370		--	--	--	--	--	--	***6.4 J***	***9.5 J***
Other Semivolatile Organic Compounds (SVOCs)											
2,4-Dimethylphenol	mg/kg	0.029		--	--	--	--	--	--	*0.059 U*	*0.069 U*
4-Methylphenol	mg/kg	0.67		--	--	--	--	--	--	***0.007***	***0.0071***
Benzoic Acid	mg/kg	0.65		--	--	--	--	--	--	*0.24 U*	*0.28 U*
Benzyl Alcohol	mg/kg	0.057		--	--	--	--	--	--	*0.03 U*	***0.087***
Benzyl butyl phthalate	mg/kg	4.9		--	--	--	--	--	--	***0.036 J***	***0.049 J***
Bis(2-ethylhexyl) phthalate	mg/kg	47		--	--	--	--	--	--	***0.12***	***0.2***
Dibenzofuran	mg/kg	15		--	--	--	--	--	--	***0.0049 J***	***0.0044 J***
Dimethyl phthalate	mg/kg	53		--	--	--	--	--	--	***0.048 J***	***0.16 J***
Hexachlorobenzene	mg/kg	0.38		--	--	--	--	--	--	*0.012 U*	*0.014 U*
N-Nitrosodiphenylamine	mg/kg	11		--	--	--	--	--	--	*0.012 U*	*0.014 U*
Pentachlorophenol	mg/kg	0.355		--	--	--	--	--	--	*0.12 U*	*0.14 U*
Phenol	mg/kg	0.42		--	--	--	--	--	--	***0.018***	***0.016***
Other Semivolatile Organic Compounds (SVOCs) - OC Normalized											
Benzyl butyl phthalate (OC normalized)	mg/kg-OC	4.9		--	--	--	--	--	--	***1.8 J***	***2.5 J***
Bis(2-ethylhexyl) phthalate (OC normalized)	mg/kg-OC	47		--	--	--	--	--	--	***6***	***10***
Dimethyl phthalate (OC normalized)	mg/kg-OC	53		--	--	--	--	--	--	***2.4 J***	***8 J***
Hexachlorobenzene (OC normalized)	mg/kg-OC	0.38		--	--	--	--	--	--	*0.60 JU*	*0.70 JU*
N-Nitrosodiphenylamine (OC normalized)	mg/kg-OC	11		--	--	--	--	--	--	*0.60 JU*	*0.70 JU*
Volatile Organic Compounds (VOCs)											
1,2,4-Trichlorobenzene	mg/kg	0.81		--	--	--	--	--	--	*0.012 U*	*0.014 U*
1,2-Dichlorobenzene	mg/kg	2.3		--	--	--	--	--	--	*0.012 U*	*0.014 U*
1,4-Dichlorobenzene	mg/kg	3.1		--	--	--	--	--	--	*0.012 U*	*0.014 U*
Volatile Organic Compounds (VOCs) - OC Normalized											
1,2,4-Trichlorobenzene (OC normalized)	mg/kg-OC	0.81		--	--	--	--	--	--	*0.60 JU*	*0.70 JU*
1,2-Dichlorobenzene (OC normalized)	mg/kg-OC	2.3		--	--	--	--	--	--	*0.60 JU*	*0.70 JU*
1,4-Dichlorobenzene (OC normalized)	mg/kg-OC	3.1		--	--	--	--	--	--	*0.60 JU*	*0.70 JU*
Conventionals											
Total Organic Carbon	%			***3.42***	***2.69 J***	**2.19**	***2.5***	***1.77 J***	**2.61**	--	--

Table H.3.A. Surface Sediment Analytical Data - LDW COCs

South Park Marina Site, Seattle, Washington

Notes:

Initial SL - Initial screening level, refer to Table H.2.A for basis.

cm - centimeters

mg/kg - milligrams per kilogram, dry weight

mg/kg-OC - milligrams per kilogram, normalized for organic carbon content (OC normalized)

% - percent

ND = 1/2 RDL - Calculated using one-half the reporting limit for nondetected components.

ND = 0 - Calculated using zero for nondetected components.

TEQ - toxic equivalency

LPAHs (low molecular weight polycyclic aromatic hydrocarbons): naphthalene, acenaphthylene, acenaphethene, fluorene, phenanthrene, and anthracene.

HPAHs (high molecular weight polycyclic aromatic hydrocarbons): fluoranthene, pyrene, benz(a)anthracene, chrysene, total benzofluoranthenes, benzo(a)pyrene, indeno(1,2,3,-c,d)pyrene, dibenzo(a,h)anthracene, and benzo(g,h,i)perylene.

cPAHs (carcinogenic polycyclic aromatic hydrocarbons): benzo(a)pyrene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene.

Gray Shaded Sample Locations and italicized analytical results - Sample is not included as part of the refined dataset for representative conditions due to age of the sample, removal via dredging, and/or replacement by a more recent collocated sample.

Pink Shaded - Total organic carbon (TOC) is outside the accepted range of 0.5 to 3.5%.

Green Shaded - Sample organic carbon content is outside the range for which the associated dry weight or OC-normalized screening level applies, and is therefore not compared to the screening level.

Bold - detected

Light Blue Shaded - Nondetected result (reporting limit) exceeded Initial SL.

Purple Shaded - Detected result exceeded Initial SL.

U - Analyte not detected at or above reporting limit shown.

J - Result value estimated.

UJ - Analyte not detected and the reporting limit is an estimate.

A - One or more of the nine common Aroclor groups (1016, 1221, 1232, 1242, 1248, 1254, 1260, 1262, and 1268) were not reported, and the Total PCB Aroclors (ND = 0) sum assumes the missing components were non-detect.

S - Estimated for other reason.

Table H.3.B. Subsurface Sediment Analytical Data - Full Dataset - LDW COCs

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Gray - Sample not included as part of the refined dataset.
Pink Shaded - Outside accepted Total organic carbon (TOC) range.
Green Shaded - Sample TOC outside range for associated screening level (SL).
Light Blue Shaded - Nondetected result (reporting limit) exceeded Initial SL.
Purple Shaded - Detected result exceeded Initial SL.

			Location	DU9004XX	DU9005XX	DU9125XX	LDW13	LDW13	LDW13	LDW14	LDW14
			Date	08/28/90	08/28/90	08/06/91	10/16/12	10/16/12	10/16/12	10/19/12	10/19/12
			Sample ID	DUWO&M90S004	DUWO&M90S005	DUWO&M91S017	LDW13 0-2C1 10162012	LDW13 2-7.2C2 10162012	LDW13 Z 10162012	LDW14 0-2C1 10192012	LDW14 2-4C2 10192012
			Depth	0 - 122 cm	0 - 214 cm	0 - 122 cm	0 - 60 cm	60 - 200 cm	200 - 260 cm	0 - 60 cm	60 - 100 cm
Analyte	**Unit**	**Initial SL**									
Metals											
Arsenic	mg/kg	7		***8.5 J***	***8.3***	--	**9**	**10**	**9**	8 U	**10**
Cadmium	mg/kg	5.1		*0.54*	*0.66*	--	0.3 U	**0.4**	**0.6**	0.3 U	0.4 U
Chromium	mg/kg	260		--	--	--	**24.4**	**24.8**	**27.3**	**23**	**25.3**
Copper	mg/kg	390		***36***	***36***	--	**35.9**	**38.9**	**40.5**	**27**	**36.6**
Lead	mg/kg	450		***3.3***	***25***	--	**12**	**16**	**25**	**9**	**14**
Mercury	mg/kg	0.41		***0.13***	***0.17***	--	**0.09**	**0.15**	**0.14**	**0.05**	**0.08**
Silver	mg/kg	6.1		***0.39***	***0.26***	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Zinc	mg/kg	410		***100***	***140***	--	**74**	**80**	**90**	**65**	**78**
Polychlorinated Biphenyl (PCB) Aroclors											
Total PCB Aroclors (ND = 0)	mg/kg	0.002		***0.26***	***0.29***	***0.068***	**0.085**	**0.201**	**0.536**	**0.0393 J**	**0.091 J**
Polychlorinated Biphenyl (PCB) Aroclors - OC Normalized											
Total PCB Aroclors (ND = 0) (OC normalized), within TOC of 0.5-3.5%	mg/kg-OC	12		***10.8***	***12.1***	***3.4 SA***	**4.75**	**10**	**24.9**	**2.38 J**	**3.73 J**
Polychlorinated Biphenyl (PCB) Congeners											
Total PCB Congeners (ND = 0)	mg/kg	0.002		--	--	--	--	--	**0.388 J**	--	--
Polychlorinated Biphenyl (PCB) Congeners - OC Normalized											
Total PCB Congeners (ND = 0) (OC normalized), within TOC of 0.5-3.5%	mg/kg-OC	12		--	--	--	--	--	**18 J**	--	--
Dioxins/Furans											
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	2E-06		--	--	--	**3.02E-06 J**	**5.1E-06 J**	**8.4E-06 J**	**2.16E-06 J**	**4.08E-06 J**
Polycyclic Aromatic Hydrocarbons (PAHs)											
2-Methylnaphthalene	mg/kg	0.67		*0.01 U*	*0.01 U*	--	**0.011**	**0.0049**	**0.016**	0.004 U	**0.0046 J**
Acenaphthene	mg/kg	0.5		*0.01 U*	*0.01 U*	--	**0.01**	**0.0082**	**0.018**	**0.0076**	**0.0099**
Anthracene	mg/kg	0.96		*0.01 U*	*0.01 U*	--	**0.017**	**0.013**	**0.04**	**0.0074**	**0.014**
Benzo(g,h,i)perylene	mg/kg	0.67		*0.02 U*	*0.02 U*	--	**0.04**	**0.041**	**0.062**	**0.018**	**0.032**
Fluoranthene	mg/kg	1.7		***0.026***	*0.01 U*	--	**0.14**	**0.15**	**0.25**	**0.098**	**0.14**
Fluorene	mg/kg	0.54		*0.01 U*	*0.01 U*	--	**0.013**	**0.0096**	**0.024**	**0.0058**	**0.0099**
Naphthalene	mg/kg	2.1		*0.01 U*	*0.01 U*	--	**0.012**	**0.0088**	**0.016**	**0.0072**	**0.012**
Phenanthrene	mg/kg	1.5		*0.01 U*	*0.01 U*	--	**0.061**	**0.055**	**0.11**	**0.058**	**0.063**
Pyrene	mg/kg	2.6		***0.028***	*0.01 U*	--	**0.15**	**0.18**	**0.25**	**0.082 J**	**0.12 J**
Benz(a)anthracene	mg/kg	1.3		*0.01 U*	*0.01 U*	--	**0.049**	**0.051**	**0.13**	**0.027**	**0.044**
Benzo(a)pyrene	mg/kg	1.6		*0.01 U*	*0.01 U*	--	**0.052**	**0.06**	**0.12**	**0.025**	**0.041**
Chrysene	mg/kg	1.4		*0.01 U*	*0.01 U*	--	**0.068**	**0.068**	**0.14**	**0.037**	**0.064**
Dibenzo(a,h)anthracene	mg/kg	0.23		*0.02 U*	*0.02 U*	--	**0.01**	**0.01**	**0.017**	**0.0047**	**0.009**
Indeno(1,2,3-cd)pyrene	mg/kg	0.6		*0.02 U*	*0.02 U*	--	**0.026**	**0.035**	**0.056**	**0.016**	**0.03**
Total Benzofluoranthenes	mg/kg	3.2		--	--	--	**0.12**	**0.15**	**0.26**	**0.057**	**0.11**
Total HPAHs (ND = 1/2 RDL)	mg/kg	12		--	--	--	**0.658**	**0.742**	**1.29**	**0.366 J**	**0.587 J**
Total LPAHs (ND = 1/2 RDL)	mg/kg	5.2		*0.01 U*	*0.01 U*	--	**0.121**	**0.0986 J**	**0.216**	**0.088**	**0.112 J**
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	0.59		--	--	--	**0.0707**	**0.0814**	**0.162**	**0.0346**	**0.0582**
Polycyclic Aromatic Hydrocarbons (PAHs) - OC Normalized											
2-Methylnaphthalene (OC normalized)	mg/kg-OC	38		*0.42 U*	*0.42 U*	--	**0.615**	**0.244**	**0.744**	0.242 U	**0.189 J**
Acenaphthene (OC normalized)	mg/kg-OC	16		*0.42 U*	*0.42 U*	--	**0.559**	**0.408**	**0.837**	**0.461**	**0.406**
Anthracene (OC normalized)	mg/kg-OC	220		*0.42 U*	*0.42 U*	--	**0.95**	**0.647**	**1.86**	**0.448**	**0.574**
Benzo(g,h,i)perylene (OC normalized)	mg/kg-OC	31		*0.83 U*	*0.83 U*	--	**2.23**	**2.04**	**2.88**	**1.09**	**1.31**
Fluoranthene (OC normalized)	mg/kg-OC	160		***1.1***	*0.42 U*	--	**7.82**	**7.46**	**11.6**	**5.94**	**5.74**
Fluorene (OC normalized)	mg/kg-OC	23		*0.42 U*	*0.42 U*	--	**0.726**	**0.478**	**1.12**	**0.352**	**0.406**
Indeno(1,2,3-cd)pyrene (OC normalized)	mg/kg-OC	34		*0.83 U*	*0.83 U*	--	**1.45**	**1.74**	**2.6**	**0.97**	**1.23**
Naphthalene (OC normalized)	mg/kg-OC	99		*0.42 U*	*0.42 U*	--	**0.67**	**0.438**	**0.744**	**0.436**	**0.492**
Phenanthrene (OC normalized)	mg/kg-OC	100		*0.42 U*	*0.42 U*	--	**3.41**	**2.74**	**5.12**	**3.52**	**2.58**
Pyrene (OC normalized)	mg/kg-OC	1000		***1.2***	*0.42 U*	--	**8.38**	**8.96**	**11.6**	**4.97 J**	**4.92 J**
Benz(a)anthracene (OC normalized)	mg/kg-OC	110		*0.42 U*	*0.42 U*	--	**2.74**	**2.54**	**6.05**	**1.64**	**1.8**
Benzo(a)pyrene (OC normalized)	mg/kg-OC	99		*0.42 U*	*0.42 U*	--	**2.91**	**2.99**	**5.58**	**1.52**	**1.68**
Chrysene (OC normalized)	mg/kg-OC	110		*0.42 U*	*0.42 U*	--	**3.8**	**3.38**	**6.51**	**2.24**	**2.62**
Dibenzo(a,h)anthracene (OC normalized)	mg/kg-OC	12		*0.83 U*	*0.83 U*	--	**0.559**	**0.498**	**0.791**	**0.285**	**0.369**
Total Benzofluoranthenes (OC normalized)	mg/kg-OC	230		--	--	--	**6.7**	**7.46**	**12.1**	**3.45**	**4.51**
Total HPAHs (ND = 1/2 RDL) (OC normalized)	mg/kg-OC	960		--	--	--	**36.8**	**36.9**	**60**	**22.2 J**	**24.1 J**
Total LPAHs (ND = 1/2 RDL) (OC normalized)	mg/kg-OC	370		*0.42 U*	*0.42 U*	--	**6.76**	**4.91 J**	**10**	**5.33**	**4.59 J**
Other Semivolatile Organic Compounds (SVOCs)											
2,4-Dimethylphenol	mg/kg	0.029		*0.01 U*	*0.01 U*	--	0.019 UJ	0.019 UJ	0.019 J	0.019 J	0.019 UJ
4-Methylphenol	mg/kg	0.67		*0.01 U*	*0.01 U*	--	**0.014 J**	**0.014 J**	**0.028 J**	**0.019 J**	0.038 U
Benzoic Acid	mg/kg	0.65		*0.01 U*	*0.01 U*	--	**0.23 J**	**0.16 J**	**0.28 J**	**0.27 J**	**0.13 J**
Benzyl Alcohol	mg/kg	0.057		*0.01 U*	*0.01 U*	--	**0.17**	**0.1**	**0.13**	**0.22**	**0.17**
Benzyl butyl phthalate	mg/kg	0.063		*0.01 U*	*0.01 U*	--	**0.016 J**	**0.02**	**0.023**	0.019 U	0.019 U
Bis(2-ethylhexyl) phthalate	mg/kg	1.3		***0.041***	*0.01 U*	--	**0.09**	**0.12**	**0.13**	**0.19**	**0.11**
Dibenzofuran	mg/kg	0.54		*0.01 U*	*0.01 U*	--	**0.013**	**0.0082**	**0.017**	**0.0074**	**0.011**
Dimethyl phthalate	mg/kg	0.071		*0.01 U*	*0.01 U*	--	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U
Hexachlorobenzene	mg/kg	0.022		*0.01 U*	*0.01 U*	--	0.0049 U	0.005 U	0.0047 U	0.0048 U	0.0049 U
N-Nitrosodiphenylamine	mg/kg	0.028		*0.02 U*	*0.02 U*	--	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U
Pentachlorophenol	mg/kg	0.36		*0.01 U*	*0.01 U*	--	0.19 U	0.19 U	0.19 U	0.19 UJ	0.19 J
Phenol	mg/kg	0.42		*0.01 U*	*0.01 U*	--	**0.036**	**0.03**	**0.064**	**0.022**	**0.013 J**
Other Semivolatile Organic Compounds (SVOCs) - OC Normalized											
Benzyl butyl phthalate (OC normalized)	mg/kg-OC	4.9		*0.42 U*	*0.42 U*	--	**0.894 J**	**0.995**	**1.07**	1.15 U	0.779 U
Bis(2-ethylhexyl) phthalate (OC normalized)	mg/kg-OC	47		***1.7***	*0.42 U*	--	**5.03**	**5.97**	**6.05**	**11.5**	**4.51**
Dibenzofuran (OC normalized)	mg/kg-OC	15		*0.42 U*	*0.42 U*	--	**0.726**	**0.408**	**0.791**	**0.448**	**0.451**
Dimethyl phthalate (OC normalized)	mg/kg-OC	53		*0.42 U*	*0.42 U*	--	1.06 U	0.945 U	0.884 U	1.15 U	0.779 U
Hexachlorobenzene (OC normalized)	mg/kg-OC	0.38		*0.42 U*	*0.42 U*	--	0.274 U	0.249 U	0.219 U	0.291 U	0.201 U
N-Nitrosodiphenylamine (OC normalized)	mg/kg-OC	11		*0.83 U*	*0.83 U*	--	1.06 U	0.945 U	0.884 U	1.15 U	0.779 U
Volatile Organic Compounds (VOCs)											
1,2,4-Trichlorobenzene	mg/kg	0.031		*0.01 U*	*0.01 U*	--	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U
1,2-Dichlorobenzene	mg/kg	0.035		*0.01 U*	*0.01 U*	--	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U
1,4-Dichlorobenzene	mg/kg	0.11		*0.01 U*	*0.01 U*	--	**0.022**	**0.014 J**	**0.011 J**	0.019 U	0.019 U
Volatile Organic Compounds (VOCs) - OC Normalized											
1,2,4-Trichlorobenzene (OC normalized)	mg/kg-OC	0.81		*0.42 U*	*0.42 U*	--	1.06 U	0.945 U	0.884 U	1.15 U	0.779 U
1,2-Dichlorobenzene (OC normalized)	mg/kg-OC	2.3		*0.42 U*	*0.42 U*	--	1.06 U	0.945 U	0.884 U	1.15 U	0.779 U
1,4-Dichlorobenzene (OC normalized)	mg/kg-OC	3.1		*0.42 U*	*0.42 U*	--	**1.23**	**0.697 J**	**0.512 J**	1.15 U	0.779 U
Conventionals											
Total Organic Carbon	%			***2.4***	***2.4***	**--**	**1.79**	**2.01**	**2.15**	**1.65**	**2.44**

Table H.3.B. Subsurface Sediment Analytical Data - Full Dataset - LDW COCs

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Gray - Sample not included as part of the refined dataset.
Pink Shaded - Outside accepted Total organic carbon (TOC) range.
Green Shaded - Sample TOC outside range for associated screening level (SL).
Light Blue Shaded - Nondetected result (reporting limit) exceeded Initial SL.
Purple Shaded - Detected result exceeded Initial SL.

			Location	LDW14	LDW14	LDW20-IT151	LDW20-IT200	LDW20-SC153	LDW20-SC153	LDW20-SC154	LDW20-SC154	LDW20-SC155
			Date	10/19/12	10/19/12	06/03/20	06/04/20	06/26/20	06/26/20	06/04/20	06/04/20	06/08/20
			Sample ID	LDW14 4-6.8C3 10192012	LDW14 Z 10192012	LDW20-IT151	LDW20-IT200	LDW20-SC153A	LDW20-SC153B	LDW20-SC154	LDW20-SC154-TIG	LDW20-SC155A
			Depth	100 - 200 cm	200 - 270 cm	0 - 45 cm	0 - 45 cm	0 - 75 cm	75 - 135 cm	0 - 60 cm	0 - 60 cm	0 - 49 cm
Analyte	**Unit**	**Initial SL**										
Metals												
Arsenic	mg/kg	7		**10**	**11**	**3.84**	**7.92**	--	--	--	--	--
Cadmium	mg/kg	5.1		**0.7**	**0.8**	--	--	--	--	--	--	--
Chromium	mg/kg	260		**29.7**	**28.5**	--	--	--	--	--	--	--
Copper	mg/kg	390		**46**	**50.1**	--	--	--	--	--	--	--
Lead	mg/kg	450		**33**	**39**	--	--	--	--	--	--	--
Mercury	mg/kg	0.41		**0.11**	**0.15**	--	--	--	**0.0885 J**	--	--	--
Silver	mg/kg	6.1		0.5 U	0.5 U	--	--	--	--	--	--	--
Zinc	mg/kg	410		**101**	**106**	--	--	--	--	--	--	--
Polychlorinated Biphenyl (PCB) Aroclors												
Total PCB Aroclors (ND = 0)	mg/kg	0.002		**0.275 J**	**0.46 J**	**0.0469 J**	**0.0689**	**0.148**	**0.0713 J**	**0.132 J**	--	**0.0487**
Polychlorinated Biphenyl (PCB) Aroclors - OC Normalized												
Total PCB Aroclors (ND = 0) (OC normalized), within TOC of 0.5-3.5%	mg/kg-OC	12		**10 J**	**26.9 J**	**7.11 J**	**3.59**	**9.31**	**4.07 J**	**5.03 J**	--	**4.06**
Polychlorinated Biphenyl (PCB) Congeners												
Total PCB Congeners (ND = 0)	mg/kg	0.002		--	--	--	--	--	--	--	**0.0978**	--
Polychlorinated Biphenyl (PCB) Congeners - OC Normalized												
Total PCB Congeners (ND = 0) (OC normalized), within TOC of 0.5-3.5%	mg/kg-OC	12		--	--	--	--	--	--	--	**3.72**	--
Dioxins/Furans												
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	2E-06		**9.74E-06 J**	**1.65E-05 J**	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)												
2-Methylnaphthalene	mg/kg	0.67		0.0048 U	**0.0056**	--	--	--	**0.0148 J**	--	--	--
Acenaphthene	mg/kg	0.5		**0.018**	**0.023**	--	--	--	**0.0086 J**	--	--	--
Anthracene	mg/kg	0.96		**0.033**	**0.029**	--	--	--	**0.0272**	--	--	--
Benzo(g,h,i)perylene	mg/kg	0.67		**0.036**	**0.031**	--	--	--	**0.109 J**	--	--	--
Fluoranthene	mg/kg	1.7		**0.2**	**0.2**	--	--	--	**0.152**	--	--	--
Fluorene	mg/kg	0.54		**0.02**	**0.025**	--	--	--	**0.0114 J**	--	--	--
Naphthalene	mg/kg	2.1		**0.013**	**0.026**	--	--	--	**0.0136 J**	--	--	--
Phenanthrene	mg/kg	1.5		**0.1**	**0.12**	--	--	--	**0.0996**	--	--	--
Pyrene	mg/kg	2.6		**0.17 J**	**0.18 J**	--	--	--	**0.278**	--	--	--
Benz(a)anthracene	mg/kg	1.3		**0.083**	**0.053**	**0.0214**	**0.0374**	--	**0.0787**	--	--	--
Benzo(a)pyrene	mg/kg	1.6		**0.07**	**0.047**	**0.0245**	**0.0407**	--	**0.11**	--	--	--
Chrysene	mg/kg	1.4		**0.1**	**0.064**	**0.0381**	**0.0575**	--	**0.112**	--	--	--
Dibenzo(a,h)anthracene	mg/kg	0.23		**0.012**	**0.0078**	**0.00438 J**	0.00498 UJ	--	**0.0277 J**	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	0.6		**0.034**	**0.026**	**0.0175**	0.00498 J	--	**0.0928 J**	--	--	--
Total Benzofluoranthenes	mg/kg	3.2		**0.15**	**0.1**	--	--	--	--	--	--	--
Total HPAHs (ND = 1/2 RDL)	mg/kg	12		**0.857 J**	**0.709 J**	**0.153**	**0.213**	--	**1.19 J**	--	--	--
Total LPAHs (ND = 1/2 RDL)	mg/kg	5.2		**0.19**	**0.226 J**	--	--	--	**0.17 J**	--	--	--
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	0.59		**0.0955**	**0.0636**	**0.0339 J**	**0.0528 J**	--	**0.154 J**	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs) - OC Normalized												
2-Methylnaphthalene (OC normalized)	mg/kg-OC	38		0.175 U	**0.327**	--	--	--	**0.846 J**	--	--	--
Acenaphthene (OC normalized)	mg/kg-OC	16		**0.657**	**1.35**	--	--	--	**0.491 J**	--	--	--
Anthracene (OC normalized)	mg/kg-OC	220		**1.2**	**1.7**	--	--	--	**1.55**	--	--	--
Benzo(g,h,i)perylene (OC normalized)	mg/kg-OC	31		**1.31**	**1.81**	--	--	--	**6.23 J**	--	--	--
Fluoranthene (OC normalized)	mg/kg-OC	160		**7.3**	**11.7**	--	--	--	**8.69**	--	--	--
Fluorene (OC normalized)	mg/kg-OC	23		**0.73**	**1.46**	--	--	--	**0.651 J**	--	--	--
Indeno(1,2,3-cd)pyrene (OC normalized)	mg/kg-OC	34		**1.24**	**1.52**	**2.65**	0.259 J	--	**5.3 J**	--	--	--
Naphthalene (OC normalized)	mg/kg-OC	99		**0.474**	**1.52**	--	--	--	**0.777 J**	--	--	--
Phenanthrene (OC normalized)	mg/kg-OC	100		**3.65**	**7.02**	--	--	--	**5.69**	--	--	--
Pyrene (OC normalized)	mg/kg-OC	1000		**6.2 J**	**10.5 J**	--	--	--	**15.9**	--	--	--
Benz(a)anthracene (OC normalized)	mg/kg-OC	110		**3.03**	**3.1**	**3.24**	**1.95**	--	**4.5**	--	--	--
Benzo(a)pyrene (OC normalized)	mg/kg-OC	99		**2.55**	**2.75**	**3.71**	**2.12**	--	**6.29**	--	--	--
Chrysene (OC normalized)	mg/kg-OC	110		**3.65**	**3.74**	**5.77**	**2.99**	--	**6.4**	--	--	--
Dibenzo(a,h)anthracene (OC normalized)	mg/kg-OC	12		**0.438**	**0.456**	**0.664 J**	0.259 UJ	--	**1.58 J**	--	--	--
Total Benzofluoranthenes (OC normalized)	mg/kg-OC	230		**5.47**	**5.85**	--	--	--	--	--	--	--
Total HPAHs (ND = 1/2 RDL) (OC normalized)	mg/kg-OC	960		**31.3 J**	**41.5 J**	**23.2**	**11.1**	--	**68 J**	--	--	--
Total LPAHs (ND = 1/2 RDL) (OC normalized)	mg/kg-OC	370		**6.93**	**13.2 J**	--	--	--	**9.71 J**	--	--	--
Other Semivolatile Organic Compounds (SVOCs)												
2,4-Dimethylphenol	mg/kg	0.029		0.02 UJ	0.02 UJ	--	--	--	--	--	--	--
4-Methylphenol	mg/kg	0.67		**0.016 J**	**0.024 J**	--	--	--	--	--	--	--
Benzoic Acid	mg/kg	0.65		**0.12 J**	**0.13 J**	--	--	--	--	--	--	--
Benzyl Alcohol	mg/kg	0.057		**0.082**	**0.065**	--	--	--	--	--	--	--
Benzyl butyl phthalate	mg/kg	0.063		0.02 U	**0.022**	--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate	mg/kg	1.3		**0.13**	**0.13**	--	--	--	--	--	--	--
Dibenzofuran	mg/kg	0.54		**0.015**	**0.019**	--	--	--	--	--	--	--
Dimethyl phthalate	mg/kg	0.071		0.02 U	0.02 U	--	--	--	--	--	--	--
Hexachlorobenzene	mg/kg	0.022		0.0048 U	0.0048 U	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	mg/kg	0.028		0.02 U	0.02 U	--	--	--	--	--	--	--
Pentachlorophenol	mg/kg	0.36		0.2 UJ	0.2 J	--	--	--	--	--	--	--
Phenol	mg/kg	0.42		**0.033**	**0.028**	--	--	--	--	--	--	--
Other Semivolatile Organic Compounds (SVOCs) - OC Normalized												
Benzyl butyl phthalate (OC normalized)	mg/kg-OC	4.9		0.73 U	**1.29**	--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate (OC normalized)	mg/kg-OC	47		**4.74**	**7.6**	--	--	--	--	--	--	--
Dibenzofuran (OC normalized)	mg/kg-OC	15		**0.547**	**1.11**	--	--	--	--	--	--	--
Dimethyl phthalate (OC normalized)	mg/kg-OC	53		0.73 U	1.17 U	--	--	--	--	--	--	--
Hexachlorobenzene (OC normalized)	mg/kg-OC	0.38		0.175 U	0.281 U	--	--	--	--	--	--	--
N-Nitrosodiphenylamine (OC normalized)	mg/kg-OC	11		0.73 U	1.17 U	--	--	--	--	--	--	--
Volatile Organic Compounds (VOCs)												
1,2,4-Trichlorobenzene	mg/kg	0.031		0.02 U	0.02 U	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	0.035		0.02 U	0.02 U	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	0.11		0.02 U	0.02 U	--	--	--	--	--	--	--
Volatile Organic Compounds (VOCs) - OC Normalized												
1,2,4-Trichlorobenzene (OC normalized)	mg/kg-OC	0.81		0.73 U	1.17 U	--	--	--	--	--	--	--
1,2-Dichlorobenzene (OC normalized)	mg/kg-OC	2.3		0.73 U	1.17 U	--	--	--	--	--	--	--
1,4-Dichlorobenzene (OC normalized)	mg/kg-OC	3.1		0.73 U	1.17 U	--	--	--	--	--	--	--
Conventionals												
Total Organic Carbon	%			**2.74**	**1.71**	**0.66**	**1.92**	**1.59**	**1.75**	**2.63**	**2.63**	**1.2**

Table H.3.B. Subsurface Sediment Analytical Data - Full Dataset - LDW COCs

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Gray - Sample not included as part of the refined dataset.
Pink Shaded - Outside accepted Total organic carbon (TOC) range.
Green Shaded - Sample TOC outside range for associated screening level (SL).
Light Blue Shaded - Nondetected result (reporting limit) exceeded Initial SL.
Purple Shaded - Detected result exceeded Initial SL.

			Location	LDW20-SC155	LDW20-SC156	LDW20-SC157	LDW20-SC157	LDW20-SC158	LDW20-SC158	LDW20-SC159	LDW20-SC159	LDW20-SC160
			Date	06/08/20	06/03/20	06/26/20	06/26/20	06/04/20	06/04/20	06/04/20	06/04/20	06/15/20
			Sample ID	LDW20-SC155B	LDW20-SC156	LDW20-SC157A	LDW20-SC157Z	LDW20-SC158	LDW20-SC158-TIG	LDW20-SC159	LDW20-SC159-TIG	LDW20-SC160A
			Depth	49 - 109 cm	0 - 60 cm	0 - 86 cm	86 - 116 cm	0 - 60 cm	0 - 60 cm	0 - 60 cm	0 - 60 cm	0 - 61 cm
Analyte	**Unit**	**Initial SL**										
Metals												
Arsenic	mg/kg	7		**7.25**	--	--	--	--	--	--	--	--
Cadmium	mg/kg	5.1		**0.18**	--	--	--	--	--	--	--	--
Chromium	mg/kg	260		**19.3**	--	--	--	--	--	--	--	--
Copper	mg/kg	390		**32.8**	--	--	--	--	--	--	--	--
Lead	mg/kg	450		**15**	--	--	--	--	--	--	--	--
Mercury	mg/kg	0.41		**0.102**	--	--	--	--	--	--	--	--
Silver	mg/kg	6.1		**0.14 J**	--	--	--	--	--	--	--	--
Zinc	mg/kg	410		**75.9**	--	--	--	--	--	--	--	--
Polychlorinated Biphenyl (PCB) Aroclors												
Total PCB Aroclors (ND = 0)	mg/kg	0.002		**0.0979 J**	**0.0469 J**	**0.0496 J**	**0.0634**	**0.168 J**	--	**0.175 J**	--	**0.0524 J**
Polychlorinated Biphenyl (PCB) Aroclors - OC Normalized												
Total PCB Aroclors (ND = 0) (OC normalized), within TOC of 0.5-3.5%	mg/kg-OC	12		**7.71 J**	**4.23 J**	**4.55 J**	**8.81**	**6.44 J**	--	**14.0 J**	--	**5.46 J**
Polychlorinated Biphenyl (PCB) Congeners												
Total PCB Congeners (ND = 0)	mg/kg	0.002		--	--	--	--	--	**0.146**	--	**0.0955 J**	--
Polychlorinated Biphenyl (PCB) Congeners - OC Normalized												
Total PCB Congeners (ND = 0) (OC normalized), within TOC of 0.5-3.5%	mg/kg-OC	12		--	--	--	--	--	**5.59**	--	**7.64**	--
Dioxins/Furans												
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	2E-06		--	--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)												
2-Methylnaphthalene	mg/kg	0.67		0.0199 U	--	--	--	--	--	--	--	--
Acenaphthene	mg/kg	0.5		0.0199 U	--	--	--	--	--	--	--	--
Anthracene	mg/kg	0.96		**0.0133 J**	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene	mg/kg	0.67		**0.052**	--	--	--	--	--	--	--	--
Fluoranthene	mg/kg	1.7		**0.107**	--	--	--	--	--	--	--	--
Fluorene	mg/kg	0.54		0.0199 U	--	--	--	--	--	--	--	--
Naphthalene	mg/kg	2.1		0.0199 U	--	--	--	--	--	--	--	--
Phenanthrene	mg/kg	1.5		**0.0497**	--	--	--	--	--	--	--	--
Pyrene	mg/kg	2.6		**0.137**	--	--	--	--	--	--	--	--
Benz(a)anthracene	mg/kg	1.3		**0.0499**	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	1.6		**0.0603**	--	--	--	--	--	--	--	--
Chrysene	mg/kg	1.4		**0.0707**	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	0.23		**0.0147 J**	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	0.6		**0.0379**	--	--	--	--	--	--	--	--
Total Benzofluoranthenes	mg/kg	3.2		--	--	--	--	--	--	--	--	--
Total HPAHs (ND = 1/2 RDL)	mg/kg	12		**0.674 J**	--	--	--	--	--	--	--	--
Total LPAHs (ND = 1/2 RDL)	mg/kg	5.2		**0.103 J**	--	--	--	--	--	--	--	--
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	0.59		**0.0857 J**	--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs) - OC Normalized												
2-Methylnaphthalene (OC normalized)	mg/kg-OC	38		1.57 U	--	--	--	--	--	--	--	--
Acenaphthene (OC normalized)	mg/kg-OC	16		1.57 U	--	--	--	--	--	--	--	--
Anthracene (OC normalized)	mg/kg-OC	220		**1.05 J**	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (OC normalized)	mg/kg-OC	31		**4.09**	--	--	--	--	--	--	--	--
Fluoranthene (OC normalized)	mg/kg-OC	160		**8.43**	--	--	--	--	--	--	--	--
Fluorene (OC normalized)	mg/kg-OC	23		1.57 U	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene (OC normalized)	mg/kg-OC	34		**2.98**	--	--	--	--	--	--	--	--
Naphthalene (OC normalized)	mg/kg-OC	99		1.57 U	--	--	--	--	--	--	--	--
Phenanthrene (OC normalized)	mg/kg-OC	100		**3.91**	--	--	--	--	--	--	--	--
Pyrene (OC normalized)	mg/kg-OC	1000		**10.8**	--	--	--	--	--	--	--	--
Benz(a)anthracene (OC normalized)	mg/kg-OC	110		**3.93**	--	--	--	--	--	--	--	--
Benzo(a)pyrene (OC normalized)	mg/kg-OC	99		**4.75**	--	--	--	--	--	--	--	--
Chrysene (OC normalized)	mg/kg-OC	110		**5.57**	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (OC normalized)	mg/kg-OC	12		**1.16 J**	--	--	--	--	--	--	--	--
Total Benzofluoranthenes (OC normalized)	mg/kg-OC	230		--	--	--	--	--	--	--	--	--
Total HPAHs (ND = 1/2 RDL) (OC normalized)	mg/kg-OC	960		**53.1 J**	--	--	--	--	--	--	--	--
Total LPAHs (ND = 1/2 RDL) (OC normalized)	mg/kg-OC	370		**8.11 J**	--	--	--	--	--	--	--	--
Other Semivolatile Organic Compounds (SVOCs)												
2,4-Dimethylphenol	mg/kg	0.029		**0.0026 J**	--	--	--	--	--	--	--	--
4-Methylphenol	mg/kg	0.67		0.0199 U	--	--	--	--	--	--	--	--
Benzoic Acid	mg/kg	0.65		**0.104**	--	--	--	--	--	--	--	--
Benzyl Alcohol	mg/kg	0.057		**0.0297 J**	--	--	--	--	--	--	--	--
Benzyl butyl phthalate	mg/kg	0.063		**0.0109 J**	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate	mg/kg	1.3		**0.0713**	--	--	--	--	--	--	--	--
Dibenzofuran	mg/kg	0.54		0.0199 U	--	--	--	--	--	--	--	--
Dimethyl phthalate	mg/kg	0.071		0.0199 U	--	--	--	--	--	--	--	--
Hexachlorobenzene	mg/kg	0.022		0.0005 U	--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	mg/kg	0.028		0.005 J	--	--	--	--	--	--	--	--
Pentachlorophenol	mg/kg	0.36		**0.0034 J**	--	--	--	--	--	--	--	--
Phenol	mg/kg	0.42		0.0199 U	--	--	--	--	--	--	--	--
Other Semivolatile Organic Compounds (SVOCs) - OC Normalized												
Benzyl butyl phthalate (OC normalized)	mg/kg-OC	4.9		**0.858 J**	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate (OC normalized)	mg/kg-OC	47		**5.61**	--	--	--	--	--	--	--	--
Dibenzofuran (OC normalized)	mg/kg-OC	15		1.57 U	--	--	--	--	--	--	--	--
Dimethyl phthalate (OC normalized)	mg/kg-OC	53		1.57 U	--	--	--	--	--	--	--	--
Hexachlorobenzene (OC normalized)	mg/kg-OC	0.38		0.0394 U	--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine (OC normalized)	mg/kg-OC	11		0.394 J	--	--	--	--	--	--	--	--
Volatile Organic Compounds (VOCs)												
1,2,4-Trichlorobenzene	mg/kg	0.031		0.005 U	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	0.035		0.005 J	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	0.11		**0.0016 J**	--	--	--	--	--	--	--	--
Volatile Organic Compounds (VOCs) - OC Normalized												
1,2,4-Trichlorobenzene (OC normalized)	mg/kg-OC	0.81		0.394 U	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene (OC normalized)	mg/kg-OC	2.3		0.394 J	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene (OC normalized)	mg/kg-OC	3.1		**0.126 J**	--	--	--	--	--	--	--	--
Conventionals												
Total Organic Carbon	%			**1.27**	**1.11**	**1.09**	**0.72 J**	**2.61**	**2.61**	**1.25**	**1.25**	**0.96**

Table H.3.B. Subsurface Sediment Analytical Data - Full Dataset - LDW COCs

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Gray - Sample not included as part of the refined dataset.
Pink Shaded - Outside accepted Total organic carbon (TOC) range.
Green Shaded - Sample TOC outside range for associated screening level (SL).
Light Blue Shaded - Nondetected result (reporting limit) exceeded Initial SL.
Purple Shaded - Detected result exceeded Initial SL.

			Location	LDW20-SC160	LDW20-SC160	LDW20-SC160	LDW20-SC161	LDW20-SC162	LDW20-SC163	LDW20-SC163	LDW20-SC164	LDW20-SC166
			Date	06/15/20	06/15/20	06/15/20	06/04/20	06/03/20	06/26/20	06/26/20	06/04/20	06/08/20
			Sample ID	LDW20-SC160B	LDW20-SC160C	LDW20-SC160Z	LDW20-SC161	LDW20-SC162	LDW20-SC163A	LDW20-SC163B	LDW20-SC164-TIG	LDW20-SC166A
			Depth	61 - 123 cm	123 - 183 cm	183 - 213 cm	0 - 60 cm	0 - 60 cm	0 - 80.5 cm	81 - 141 cm	0 - 60 cm	0 - 70 cm
Analyte	**Unit**	**Initial SL**										
Metals												
Arsenic	mg/kg	7		--	**7.86 J**	--	--	--	--	--	--	--
Cadmium	mg/kg	5.1		--	**0.34**	--	--	--	--	--	--	--
Chromium	mg/kg	260		--	**23.3**	--	--	--	--	--	--	--
Copper	mg/kg	390		--	**35.8**	--	--	--	--	--	--	--
Lead	mg/kg	450		--	**18.5**	--	--	--	--	--	--	--
Mercury	mg/kg	0.41		--	**0.0896**	--	--	--	--	--	--	--
Silver	mg/kg	6.1		--	**0.22 J**	--	--	--	--	--	--	--
Zinc	mg/kg	410		--	**77.4**	--	--	--	--	--	--	--
Polychlorinated Biphenyl (PCB) Aroclors												
Total PCB Aroclors (ND = 0)	mg/kg	0.002		**0.0742 J**	**0.0956 J**	**0.148**	**0.186 J**	**0.196 J**	**0.0342**	**0.085**	--	**0.036**
Polychlorinated Biphenyl (PCB) Aroclors - OC Normalized												
Total PCB Aroclors (ND = 0) (OC normalized), within TOC of 0.5-3.5%	mg/kg-OC	12		**3.95 J**	**5.49 J**	**8.22**	**11.6 J**	**9.66 J**	**3.29**	**6.39**	--	**2.83**
Polychlorinated Biphenyl (PCB) Congeners												
Total PCB Congeners (ND = 0)	mg/kg	0.002		--	--	--	--	--	--	--	**0.124 J**	--
Polychlorinated Biphenyl (PCB) Congeners - OC Normalized												
Total PCB Congeners (ND = 0) (OC normalized), within TOC of 0.5-3.5%	mg/kg-OC	12		--	--	--	--	--	--	--	**9.39**	--
Dioxins/Furans												
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	2E-06		--	--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)												
2-Methylnaphthalene	mg/kg	0.67		--	**0.0142 J**	--	--	--	--	--	--	--
Acenaphthene	mg/kg	0.5		--	**0.0055 J**	--	--	--	--	--	--	--
Anthracene	mg/kg	0.96		--	**0.0161 J**	--	--	--	--	--	--	--
Benzo(g,h,i)perylene	mg/kg	0.67		--	**0.0491**	--	--	--	--	--	--	--
Fluoranthene	mg/kg	1.7		--	**0.0977**	--	--	--	--	--	--	--
Fluorene	mg/kg	0.54		--	**0.0061 J**	--	--	--	--	--	--	--
Naphthalene	mg/kg	2.1		--	**0.0095 J**	--	--	--	--	--	--	--
Phenanthrene	mg/kg	1.5		--	**0.0497**	--	--	--	--	--	--	--
Pyrene	mg/kg	2.6		--	**0.158**	--	--	--	--	--	--	--
Benz(a)anthracene	mg/kg	1.3		--	**0.0494**	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	1.6		--	**0.0727**	--	--	--	--	--	--	--
Chrysene	mg/kg	1.4		--	**0.0692**	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	0.23		--	**0.0159 J**	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	0.6		--	**0.0433**	--	--	--	--	--	--	--
Total Benzofluoranthenes	mg/kg	3.2		--	--	--	--	--	--	--	--	--
Total HPAHs (ND = 1/2 RDL)	mg/kg	12		--	**0.706 J**	--	--	--	--	--	--	--
Total LPAHs (ND = 1/2 RDL)	mg/kg	5.2		--	**0.0968 J**	--	--	--	--	--	--	--
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	0.59		--	**0.0994 J**	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs) - OC Normalized												
2-Methylnaphthalene (OC normalized)	mg/kg-OC	38		--	**0.816 J**	--	--	--	--	--	--	--
Acenaphthene (OC normalized)	mg/kg-OC	16		--	**0.316 J**	--	--	--	--	--	--	--
Anthracene (OC normalized)	mg/kg-OC	220		--	**0.925 J**	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (OC normalized)	mg/kg-OC	31		--	**2.82**	--	--	--	--	--	--	--
Fluoranthene (OC normalized)	mg/kg-OC	160		--	**5.61**	--	--	--	--	--	--	--
Fluorene (OC normalized)	mg/kg-OC	23		--	**0.351 J**	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene (OC normalized)	mg/kg-OC	34		--	**2.49**	--	--	--	--	--	--	--
Naphthalene (OC normalized)	mg/kg-OC	99		--	**0.546 J**	--	--	--	--	--	--	--
Phenanthrene (OC normalized)	mg/kg-OC	100		--	**2.86**	--	--	--	--	--	--	--
Pyrene (OC normalized)	mg/kg-OC	1000		--	**9.08**	--	--	--	--	--	--	--
Benz(a)anthracene (OC normalized)	mg/kg-OC	110		--	**2.84**	--	--	--	--	--	--	--
Benzo(a)pyrene (OC normalized)	mg/kg-OC	99		--	**4.18**	--	--	--	--	--	--	--
Chrysene (OC normalized)	mg/kg-OC	110		--	**3.98**	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (OC normalized)	mg/kg-OC	12		--	**0.914 J**	--	--	--	--	--	--	--
Total Benzofluoranthenes (OC normalized)	mg/kg-OC	230		--	--	--	--	--	--	--	--	--
Total HPAHs (ND = 1/2 RDL) (OC normalized)	mg/kg-OC	960		--	**40.6 J**	--	--	--	--	--	--	--
Total LPAHs (ND = 1/2 RDL) (OC normalized)	mg/kg-OC	370		--	**5.56 J**	--	--	--	--	--	--	--
Other Semivolatile Organic Compounds (SVOCs)												
2,4-Dimethylphenol	mg/kg	0.029		--	0.0199 J	--	--	--	--	--	--	--
4-Methylphenol	mg/kg	0.67		--	0.0199 U	--	--	--	--	--	--	--
Benzoic Acid	mg/kg	0.65		--	0.0995 U	--	--	--	--	--	--	--
Benzyl Alcohol	mg/kg	0.057		--	**0.0056 J**	--	--	--	--	--	--	--
Benzyl butyl phthalate	mg/kg	0.063		--	**0.0086 J**	--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate	mg/kg	1.3		--	**0.0745**	--	--	--	--	--	--	--
Dibenzofuran	mg/kg	0.54		--	**0.0073 J**	--	--	--	--	--	--	--
Dimethyl phthalate	mg/kg	0.071		--	0.0199 U	--	--	--	--	--	--	--
Hexachlorobenzene	mg/kg	0.022		--	0.0005 U	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	mg/kg	0.028		--	**0.0031 J**	--	--	--	--	--	--	--
Pentachlorophenol	mg/kg	0.36		--	0.0199 J	--	--	--	--	--	--	--
Phenol	mg/kg	0.42		--	**0.0109 J**	--	--	--	--	--	--	--
Other Semivolatile Organic Compounds (SVOCs) - OC Normalized												
Benzyl butyl phthalate (OC normalized)	mg/kg-OC	4.9		--	**0.494 J**	--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate (OC normalized)	mg/kg-OC	47		--	**4.28**	--	--	--	--	--	--	--
Dibenzofuran (OC normalized)	mg/kg-OC	15		--	**0.42 J**	--	--	--	--	--	--	--
Dimethyl phthalate (OC normalized)	mg/kg-OC	53		--	1.14 U	--	--	--	--	--	--	--
Hexachlorobenzene (OC normalized)	mg/kg-OC	0.38		--	0.0287 U	--	--	--	--	--	--	--
N-Nitrosodiphenylamine (OC normalized)	mg/kg-OC	11		--	**0.178 J**	--	--	--	--	--	--	--
Volatile Organic Compounds (VOCs)												
1,2,4-Trichlorobenzene	mg/kg	0.031		--	0.005 U	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	0.035		--	0.005 U	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	0.11		--	**0.0014 J**	--	--	--	--	--	--	--
Volatile Organic Compounds (VOCs) - OC Normalized												
1,2,4-Trichlorobenzene (OC normalized)	mg/kg-OC	0.81		--	0.287 U	--	--	--	--	--	--	--
1,2-Dichlorobenzene (OC normalized)	mg/kg-OC	2.3		--	0.287 U	--	--	--	--	--	--	--
1,4-Dichlorobenzene (OC normalized)	mg/kg-OC	3.1		--	**0.0805 J**	--	--	--	--	--	--	--
Conventionals												
Total Organic Carbon	%			**1.88**	**1.74**	**1.8 J**	**1.61**	**2.03**	**1.04 J**	**1.33 J**	**1.32**	**1.27**

Table H.3.B. Subsurface Sediment Analytical Data - Full Dataset - LDW COCs

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Gray - Sample not included as part of the refined dataset.
Pink Shaded - Outside accepted Total organic carbon (TOC) range.
Green Shaded - Sample TOC outside range for associated screening level (SL).
Light Blue Shaded - Nondetected result (reporting limit) exceeded Initial SL.
Purple Shaded - Detected result exceeded Initial SL.

			Location	LDW20-SC166	LDW20-SC166	LDW20-SC166	LDW20-SC167	LDW20-SC167	LDW20-SC168	LDW20-SC168	LDW20-SC169	LDW20-SC169
			Date	06/08/20	06/08/20	06/08/20	06/04/20	06/04/20	06/04/20	06/04/20	06/05/20	06/05/20
			Sample ID	LDW20-SC166B	LDW20-SC166C	LDW20-SC166Z	LDW20-SC167	LDW20-SC167-TIG	LDW20-SC168	LDW20-SC168-TIG	LDW20-SC169	LDW20-SC169-TIG
			Depth	70 - 141 cm	141 - 201 cm	201 - 231 cm	0 - 60 cm	0 - 60 cm	0 - 60 cm	0 - 60 cm	0 - 60 cm	0 - 60 cm
Analyte	**Unit**	**Initial SL**										
Metals												
Arsenic	mg/kg	7		--	**8.44**	--	--	--	--	--	--	--
Cadmium	mg/kg	5.1		--	**0.27**	--	--	--	--	--	--	--
Chromium	mg/kg	260		--	**21.6**	--	--	--	--	--	--	--
Copper	mg/kg	390		--	**37.1**	--	--	--	--	--	--	--
Lead	mg/kg	450		--	**18**	--	--	--	--	--	--	--
Mercury	mg/kg	0.41		--	**0.123**	--	--	--	--	--	--	--
Silver	mg/kg	6.1		--	**0.24 J**	--	--	--	--	--	--	--
Zinc	mg/kg	410		--	**82.9**	--	--	--	--	--	--	--
Polychlorinated Biphenyl (PCB) Aroclors												
Total PCB Aroclors (ND = 0)	mg/kg	0.002		**0.0563**	**0.103 J**	**0.181**	**0.418 J**	--	**0.115 J**	--	**0.25 J**	--
Polychlorinated Biphenyl (PCB) Aroclors - OC Normalized												
Total PCB Aroclors (ND = 0) (OC normalized), within TOC of 0.5-3.5%	mg/kg-OC	12		**3.45**	**6.13 J**	**9.89**	**27.1 J**	--	**4.63 J**	--	**12.20 J**	--
Polychlorinated Biphenyl (PCB) Congeners												
Total PCB Congeners (ND = 0)	mg/kg	0.002		--	--	--	--	**0.166 J**	--	**0.103**	--	**0.175**
Polychlorinated Biphenyl (PCB) Congeners - OC Normalized												
Total PCB Congeners (ND = 0) (OC normalized), within TOC of 0.5-3.5%	mg/kg-OC	12		--	--	--	--	**10.8**	--	**4.15**	--	**8.54**
Dioxins/Furans												
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	2E-06		--	--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)												
2-Methylnaphthalene	mg/kg	0.67		--	**0.0124 J**	--	--	--	--	--	--	--
Acenaphthene	mg/kg	0.5		--	0.0199 U	--	--	--	--	--	--	--
Anthracene	mg/kg	0.96		--	**0.026 J**	--	--	--	--	--	--	--
Benzo(g,h,i)perylene	mg/kg	0.67		--	**0.0641**	--	--	--	--	--	--	--
Fluoranthene	mg/kg	1.7		--	**0.215**	--	--	--	--	--	--	--
Fluorene	mg/kg	0.54		--	0.0199 U	--	--	--	--	--	--	--
Naphthalene	mg/kg	2.1		--	**0.0113 J**	--	--	--	--	--	--	--
Phenanthrene	mg/kg	1.5		--	**0.0993**	--	--	--	--	--	--	--
Pyrene	mg/kg	2.6		--	**0.234**	--	--	--	--	--	--	--
Benz(a)anthracene	mg/kg	1.3		--	**0.0847**	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	1.6		--	**0.105**	--	--	--	--	--	--	--
Chrysene	mg/kg	1.4		--	**0.129**	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	0.23		--	**0.0196 J**	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	0.6		--	**0.0617**	--	--	--	--	--	--	--
Total Benzofluoranthenes	mg/kg	3.2		--	--	--	--	--	--	--	--	--
Total HPAHs (ND = 1/2 RDL)	mg/kg	12		--	**1.14 J**	--	--	--	--	--	--	--
Total LPAHs (ND = 1/2 RDL)	mg/kg	5.2		--	**0.166 J**	--	--	--	--	--	--	--
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	0.59		--	**0.146 J**	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs) - OC Normalized												
2-Methylnaphthalene (OC normalized)	mg/kg-OC	38		--	**0.738 J**	--	--	--	--	--	--	--
Acenaphthene (OC normalized)	mg/kg-OC	16		--	1.18 U	--	--	--	--	--	--	--
Anthracene (OC normalized)	mg/kg-OC	220		--	**1.55 J**	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (OC normalized)	mg/kg-OC	31		--	**3.82**	--	--	--	--	--	--	--
Fluoranthene (OC normalized)	mg/kg-OC	160		--	**12.8**	--	--	--	--	--	--	--
Fluorene (OC normalized)	mg/kg-OC	23		--	1.18 U	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene (OC normalized)	mg/kg-OC	34		--	**3.67**	--	--	--	--	--	--	--
Naphthalene (OC normalized)	mg/kg-OC	99		--	**0.673 J**	--	--	--	--	--	--	--
Phenanthrene (OC normalized)	mg/kg-OC	100		--	**5.91**	--	--	--	--	--	--	--
Pyrene (OC normalized)	mg/kg-OC	1000		--	**13.9**	--	--	--	--	--	--	--
Benz(a)anthracene (OC normalized)	mg/kg-OC	110		--	**5.04**	--	--	--	--	--	--	--
Benzo(a)pyrene (OC normalized)	mg/kg-OC	99		--	**6.25**	--	--	--	--	--	--	--
Chrysene (OC normalized)	mg/kg-OC	110		--	**7.68**	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (OC normalized)	mg/kg-OC	12		--	**1.17 J**	--	--	--	--	--	--	--
Total Benzofluoranthenes (OC normalized)	mg/kg-OC	230		--	--	--	--	--	--	--	--	--
Total HPAHs (ND = 1/2 RDL) (OC normalized)	mg/kg-OC	960		--	**67.9 J**	--	--	--	--	--	--	--
Total LPAHs (ND = 1/2 RDL) (OC normalized)	mg/kg-OC	370		--	**9.88 J**	--	--	--	--	--	--	--
Other Semivolatile Organic Compounds (SVOCs)												
2,4-Dimethylphenol	mg/kg	0.029		--	0.0199 U	--	--	--	--	--	--	--
4-Methylphenol	mg/kg	0.67		--	0.0199 U	--	--	--	--	--	--	--
Benzoic Acid	mg/kg	0.65		--	**0.0863 J**	--	--	--	--	--	--	--
Benzyl Alcohol	mg/kg	0.057		--	**0.049 J**	--	--	--	--	--	--	--
Benzyl butyl phthalate	mg/kg	0.063		--	**0.0177 J**	--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate	mg/kg	1.3		--	**0.115**	--	--	--	--	--	--	--
Dibenzofuran	mg/kg	0.54		--	**0.0114 J**	--	--	--	--	--	--	--
Dimethyl phthalate	mg/kg	0.071		--	0.0199 U	--	--	--	--	--	--	--
Hexachlorobenzene	mg/kg	0.022		--	0.0005 U	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	mg/kg	0.028		--	0.005 J	--	--	--	--	--	--	--
Pentachlorophenol	mg/kg	0.36		--	0.0199 U	--	--	--	--	--	--	--
Phenol	mg/kg	0.42		--	0.0199 U	--	--	--	--	--	--	--
Other Semivolatile Organic Compounds (SVOCs) - OC Normalized												
Benzyl butyl phthalate (OC normalized)	mg/kg-OC	4.9		--	**1.05 J**	--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate (OC normalized)	mg/kg-OC	47		--	**6.85**	--	--	--	--	--	--	--
Dibenzofuran (OC normalized)	mg/kg-OC	15		--	**0.679 J**	--	--	--	--	--	--	--
Dimethyl phthalate (OC normalized)	mg/kg-OC	53		--	1.18 U	--	--	--	--	--	--	--
Hexachlorobenzene (OC normalized)	mg/kg-OC	0.38		--	0.0298 U	--	--	--	--	--	--	--
N-Nitrosodiphenylamine (OC normalized)	mg/kg-OC	11		--	0.298 J	--	--	--	--	--	--	--
Volatile Organic Compounds (VOCs)												
1,2,4-Trichlorobenzene	mg/kg	0.031		--	0.005 U	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	0.035		--	0.005 J	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	0.11		--	**0.0019 J**	--	--	--	--	--	--	--
Volatile Organic Compounds (VOCs) - OC Normalized												
1,2,4-Trichlorobenzene (OC normalized)	mg/kg-OC	0.81		--	0.298 U	--	--	--	--	--	--	--
1,2-Dichlorobenzene (OC normalized)	mg/kg-OC	2.3		--	0.298 J	--	--	--	--	--	--	--
1,4-Dichlorobenzene (OC normalized)	mg/kg-OC	3.1		--	**0.113 J**	--	--	--	--	--	--	--
Conventionals												
Total Organic Carbon	%			**1.63**	**1.68**	**1.83 J**	**1.54**	**1.54**	**2.48**	**2.48**	**2.05**	**2.05**

Table H.3.B. Subsurface Sediment Analytical Data - Full Dataset - LDW COCs

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Gray - Sample not included as part of the refined dataset.
Pink Shaded - Outside accepted Total organic carbon (TOC) range.
Green Shaded - Sample TOC outside range for associated screening level (SL).
Light Blue Shaded - Nondetected result (reporting limit) exceeded Initial SL.
Purple Shaded - Detected result exceeded Initial SL.

			Location	LDW20-SC201	LDW21-SC549	LDW21-SC549	LDW21-SC549	LDW21-SC549	LDW21-SC549	LDW21-SC549	LDW21-SC549
			Date	06/25/20	07/01/21	07/01/21	07/01/21	07/01/21	07/01/21	07/01/21	07/01/21
			Sample ID	LDW20-SC201B	LDW21-SC549A	LDW21-SC549B	LDW21-SC549C	LDW21-SC549E	LDW21-SC549F	LDW21-SC549G	LDW21-SC549H
			Depth	84 - 144 cm	0 - 60 cm	60 - 90 cm	90 - 120 cm	150 - 180 cm	180 - 210 cm	210 - 240 cm	240 - 259 cm
Analyte	**Unit**	**Initial SL**									
Metals											
Arsenic	mg/kg	7		--	--	--	--	--	--	--	--
Cadmium	mg/kg	5.1		--	--	--	--	--	--	--	--
Chromium	mg/kg	260		--	--	--	--	--	--	--	--
Copper	mg/kg	390		--	--	--	--	--	--	--	--
Lead	mg/kg	450		--	--	--	--	--	--	--	--
Mercury	mg/kg	0.41		--	**0.103 J**	**0.0969 J**	**0.102 J**	**0.114 J**	--	**0.138 J**	--
Silver	mg/kg	6.1		--	--	--	--	--	--	--	--
Zinc	mg/kg	410		--	--	--	--	--	--	--	--
Polychlorinated Biphenyl (PCB) Aroclors											
Total PCB Aroclors (ND = 0)	mg/kg	0.002		**0.0436**	**0.0516 J**	**0.075 J**	**0.0644 J**	**0.133 J**	**0.17**	**0.238 J**	**0.122**
Polychlorinated Biphenyl (PCB) Aroclors - OC Normalized											
Total PCB Aroclors (ND = 0) (OC normalized), within TOC of 0.5-3.5%	mg/kg-OC	12		**2.08**	**3.02 J**	**4.26 J**	**3.39 J**	**6.62 J**	**7.42**	**6.21 J**	**6.56**
Polychlorinated Biphenyl (PCB) Congeners											
Total PCB Congeners (ND = 0)	mg/kg	0.002		--	--	--	--	--	--	--	--
Polychlorinated Biphenyl (PCB) Congeners - OC Normalized											
Total PCB Congeners (ND = 0) (OC normalized), within TOC of 0.5-3.5%	mg/kg-OC	12		--	--	--	--	--	--	--	--
Dioxins/Furans											
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	2E-06		**7.21E-07 J**	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)											
2-Methylnaphthalene	mg/kg	0.67		--	**0.00686**	**0.0166**	**0.0115**	**0.014**	--	**0.0268**	--
Acenaphthene	mg/kg	0.5		--	**0.00714**	**0.00995**	**0.012**	**0.0104**	--	**0.0234**	--
Anthracene	mg/kg	0.96		--	**0.00693**	**0.0182**	**0.0135**	**0.00903**	--	**0.0442**	--
Benzo(g,h,i)perylene	mg/kg	0.67		--	**0.026**	**0.0608**	**0.0432**	**0.00802**	--	**0.0287**	--
Fluoranthene	mg/kg	1.7		--	**0.121 J**	**0.49**	**0.345**	**0.093**	--	**0.104**	--
Fluorene	mg/kg	0.54		--	0.00499 U	**0.0113**	**0.00998**	**0.00737**	--	**0.0302**	--
Naphthalene	mg/kg	2.1		--	**0.00589**	**0.00974**	**0.0065**	**0.00916**	--	**0.0179**	--
Phenanthrene	mg/kg	1.5		--	**0.028**	**0.0794**	**0.0754**	**0.0212**	--	**0.103**	--
Pyrene	mg/kg	2.6		--	**0.066**	**0.171**	**0.139**	**0.0289**	--	**0.23**	--
Benz(a)anthracene	mg/kg	1.3		--	**0.025**	**0.0555**	**0.0494**	**0.0124**	--	**0.108**	--
Benzo(a)pyrene	mg/kg	1.6		--	**0.0296**	**0.0709**	**0.0615**	**0.00872**	--	**0.0959**	--
Chrysene	mg/kg	1.4		--	**0.0339**	**0.0741**	**0.0691**	**0.0158**	--	**0.231**	--
Dibenzo(a,h)anthracene	mg/kg	0.23		--	**0.00773**	**0.0153**	**0.0122**	**0.00185 J**	--	**0.0147**	--
Indeno(1,2,3-cd)pyrene	mg/kg	0.6		--	**0.021 J**	**0.0457 J**	**0.0379 J**	**0.00633 J**	--	**0.0289 J**	--
Total Benzofluoranthenes	mg/kg	3.2		--	--	--	--	--	--	--	--
Total HPAHs (ND = 1/2 RDL)	mg/kg	12		--	**0.383 J**	**1.1 J**	**0.85 J**	**0.193 J**	--	**1.01 J**	--
Total LPAHs (ND = 1/2 RDL)	mg/kg	5.2		--	**0.053 J**	**0.134**	**0.119 J**	**0.0588 J**	--	**0.225**	--
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	0.59		--	**0.0406 J**	**0.0951 J**	**0.0814 J**	**0.0127 J**	--	**0.13 J**	--
Polycyclic Aromatic Hydrocarbons (PAHs) - OC Normalized											
2-Methylnaphthalene (OC normalized)	mg/kg-OC	38		--	**0.401**	**0.943**	**0.605**	**0.697**	--	**0.7**	--
Acenaphthene (OC normalized)	mg/kg-OC	16		--	**0.418**	**0.565**	**0.632**	**0.517**	--	**0.611**	--
Anthracene (OC normalized)	mg/kg-OC	220		--	**0.405**	**1.03**	**0.711**	**0.449**	--	**1.15**	--
Benzo(g,h,i)perylene (OC normalized)	mg/kg-OC	31		--	**1.52**	**3.45**	**2.27**	**0.399**	--	**0.749**	--
Fluoranthene (OC normalized)	mg/kg-OC	160		--	**7.08 J**	**27.8**	**18.2**	**4.63**	--	**2.72**	--
Fluorene (OC normalized)	mg/kg-OC	23		--	0.292 U	**0.642**	**0.525**	**0.367**	--	**0.789**	--
Indeno(1,2,3-cd)pyrene (OC normalized)	mg/kg-OC	34		--	**1.23 J**	**2.6 J**	**1.99 J**	**0.315 J**	--	**0.755 J**	--
Naphthalene (OC normalized)	mg/kg-OC	99		--	**0.344**	**0.553**	**0.342**	**0.456**	--	**0.467**	--
Phenanthrene (OC normalized)	mg/kg-OC	100		--	**1.64**	**4.51**	**3.97**	**1.05**	--	**2.69**	--
Pyrene (OC normalized)	mg/kg-OC	1000		--	**3.86**	**9.72**	**7.32**	**1.44**	--	**6.01**	--
Benz(a)anthracene (OC normalized)	mg/kg-OC	110		--	**1.46**	**3.15**	**2.6**	**0.617**	--	**2.82**	--
Benzo(a)pyrene (OC normalized)	mg/kg-OC	99		--	**1.73**	**4.03**	**3.24**	**0.434**	--	**2.5**	--
Chrysene (OC normalized)	mg/kg-OC	110		--	**1.98**	**4.21**	**3.64**	**0.786**	--	**6.03**	--
Dibenzo(a,h)anthracene (OC normalized)	mg/kg-OC	12		--	**0.452**	**0.869**	**0.642**	**0.092 J**	--	**0.384**	--
Total Benzofluoranthenes (OC normalized)	mg/kg-OC	230		--	--	--	--	--	--	--	--
Total HPAHs (ND = 1/2 RDL) (OC normalized)	mg/kg-OC	960		--	**22.4 J**	**62.5 J**	**44.7 J**	**9.6 J**	--	**26.4 J**	--
Total LPAHs (ND = 1/2 RDL) (OC normalized)	mg/kg-OC	370		--	**3.1 J**	**7.61**	**6.26 J**	**2.93 J**	--	**5.87**	--
Other Semivolatile Organic Compounds (SVOCs)											
2,4-Dimethylphenol	mg/kg	0.029		--	--	--	--	--	--	--	--
4-Methylphenol	mg/kg	0.67		--	--	--	--	--	--	--	--
Benzoic Acid	mg/kg	0.65		--	--	--	--	--	--	--	--
Benzyl Alcohol	mg/kg	0.057		--	--	--	--	--	--	--	--
Benzyl butyl phthalate	mg/kg	0.063		--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate	mg/kg	1.3		--	--	--	--	--	--	--	--
Dibenzofuran	mg/kg	0.54		--	--	--	--	--	--	--	--
Dimethyl phthalate	mg/kg	0.071		--	--	--	--	--	--	--	--
Hexachlorobenzene	mg/kg	0.022		--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	mg/kg	0.028		--	--	--	--	--	--	--	--
Pentachlorophenol	mg/kg	0.36		--	--	--	--	--	--	--	--
Phenol	mg/kg	0.42		--	--	--	--	--	--	--	--
Other Semivolatile Organic Compounds (SVOCs) - OC Normalized											
Benzyl butyl phthalate (OC normalized)	mg/kg-OC	4.9		--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate (OC normalized)	mg/kg-OC	47		--	--	--	--	--	--	--	--
Dibenzofuran (OC normalized)	mg/kg-OC	15		--	--	--	--	--	--	--	--
Dimethyl phthalate (OC normalized)	mg/kg-OC	53		--	--	--	--	--	--	--	--
Hexachlorobenzene (OC normalized)	mg/kg-OC	0.38		--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine (OC normalized)	mg/kg-OC	11		--	--	--	--	--	--	--	--
Volatile Organic Compounds (VOCs)											
1,2,4-Trichlorobenzene	mg/kg	0.031		--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	0.035		--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	0.11		--	--	--	--	--	--	--	--
Volatile Organic Compounds (VOCs) - OC Normalized											
1,2,4-Trichlorobenzene (OC normalized)	mg/kg-OC	0.81		--	--	--	--	--	--	--	--
1,2-Dichlorobenzene (OC normalized)	mg/kg-OC	2.3		--	--	--	--	--	--	--	--
1,4-Dichlorobenzene (OC normalized)	mg/kg-OC	3.1		--	--	--	--	--	--	--	--
Conventionals											
Total Organic Carbon	%			**2.1**	**1.71**	**1.76**	**1.9**	**2.01**	**2.29 J**	**3.83**	**1.86 J**

Table H.3.B. Subsurface Sediment Analytical Data - Full Dataset - LDW COCs

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Gray - Sample not included as part of the refined dataset.
Pink Shaded - Outside accepted Total organic carbon (TOC) range.
Green Shaded - Sample TOC outside range for associated screening level (SL).
Light Blue Shaded - Nondetected result (reporting limit) exceeded Initial SL.
Purple Shaded - Detected result exceeded Initial SL.

	Location		**LDW21-SC558**	**LDW21-SC558**	**LDW21-SC558**	**LDW21-SC558**	**LDW21-SC558**	**LDW21-SC558**	**LDW21-SC558**	**LDW21-SC558**
	Date		06/29/21	06/29/21	06/29/21	06/29/21	06/29/21	06/29/21	06/29/21	06/29/21
	Sample ID		LDW21-SC558A	LDW21-SC558B	LDW21-SC558C	LDW21-SC558D	LDW21-SC558E	LDW21-SC558F	LDW21-SC558G	LDW21-SC558I
	Depth		0 - 83 cm	83 - 166 cm	166 - 226 cm	226 - 256 cm	256 - 286 cm	286 - 316 cm	316 - 346 cm	376 - 406 cm
Analyte	**Unit**	**Initial SL**								
Metals										
Arsenic	mg/kg	7	--	--	--	--	--	--	--	--
Cadmium	mg/kg	5.1	--	--	--	--	--	--	--	--
Chromium	mg/kg	260	--	--	--	--	--	--	--	--
Copper	mg/kg	390	--	--	--	--	--	--	--	--
Lead	mg/kg	450	--	--	--	--	--	--	--	--
Mercury	mg/kg	0.41	--	--	--	--	--	--	--	--
Silver	mg/kg	6.1	--	--	--	--	--	--	--	--
Zinc	mg/kg	410	--	--	--	--	--	--	--	--
Polychlorinated Biphenyl (PCB) Aroclors										
Total PCB Aroclors (ND = 0)	mg/kg	0.002	**0.0436**	**0.076**	**0.0579 J**	**0.102 J**	**0.0851 J**	**0.386**	**0.532 J**	**0.333 J**
Polychlorinated Biphenyl (PCB) Aroclors - OC Normalized										
Total PCB Aroclors (ND = 0) (OC normalized), within TOC of 0.5-3.5%	mg/kg-OC	12	**2.72**	**4.69**	**3.57 J**	**4.27 J**	**3.9 J**	**21.3**	**25.1 J**	**25.6 J**
Polychlorinated Biphenyl (PCB) Congeners										
Total PCB Congeners (ND = 0)	mg/kg	0.002	--	--	--	--	--	--	--	--
Polychlorinated Biphenyl (PCB) Congeners - OC Normalized										
Total PCB Congeners (ND = 0) (OC normalized), within TOC of 0.5-3.5%	mg/kg-OC	12	--	--	--	--	--	--	--	--
Dioxins/Furans										
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	2E-06	--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)										
2-Methylnaphthalene	mg/kg	0.67	--	--	--	--	--	--	--	--
Acenaphthene	mg/kg	0.5	--	--	--	--	--	--	--	--
Anthracene	mg/kg	0.96	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene	mg/kg	0.67	--	--	--	--	--	--	--	--
Fluoranthene	mg/kg	1.7	--	--	--	--	--	--	--	--
Fluorene	mg/kg	0.54	--	--	--	--	--	--	--	--
Naphthalene	mg/kg	2.1	--	--	--	--	--	--	--	--
Phenanthrene	mg/kg	1.5	--	--	--	--	--	--	--	--
Pyrene	mg/kg	2.6	--	--	--	--	--	--	--	--
Benz(a)anthracene	mg/kg	1.3	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	1.6	--	--	--	--	--	--	--	--
Chrysene	mg/kg	1.4	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	0.23	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	0.6	--	--	--	--	--	--	--	--
Total Benzofluoranthenes	mg/kg	3.2	--	--	--	--	--	--	--	--
Total HPAHs (ND = 1/2 RDL)	mg/kg	12	--	--	--	--	--	--	--	--
Total LPAHs (ND = 1/2 RDL)	mg/kg	5.2	--	--	--	--	--	--	--	--
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	0.59	--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs) - OC Normalized										
2-Methylnaphthalene (OC normalized)	mg/kg-OC	38	--	--	--	--	--	--	--	--
Acenaphthene (OC normalized)	mg/kg-OC	16	--	--	--	--	--	--	--	--
Anthracene (OC normalized)	mg/kg-OC	220	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (OC normalized)	mg/kg-OC	31	--	--	--	--	--	--	--	--
Fluoranthene (OC normalized)	mg/kg-OC	160	--	--	--	--	--	--	--	--
Fluorene (OC normalized)	mg/kg-OC	23	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene (OC normalized)	mg/kg-OC	34	--	--	--	--	--	--	--	--
Naphthalene (OC normalized)	mg/kg-OC	99	--	--	--	--	--	--	--	--
Phenanthrene (OC normalized)	mg/kg-OC	100	--	--	--	--	--	--	--	--
Pyrene (OC normalized)	mg/kg-OC	1000	--	--	--	--	--	--	--	--
Benz(a)anthracene (OC normalized)	mg/kg-OC	110	--	--	--	--	--	--	--	--
Benzo(a)pyrene (OC normalized)	mg/kg-OC	99	--	--	--	--	--	--	--	--
Chrysene (OC normalized)	mg/kg-OC	110	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (OC normalized)	mg/kg-OC	12	--	--	--	--	--	--	--	--
Total Benzofluoranthenes (OC normalized)	mg/kg-OC	230	--	--	--	--	--	--	--	--
Total HPAHs (ND = 1/2 RDL) (OC normalized)	mg/kg-OC	960	--	--	--	--	--	--	--	--
Total LPAHs (ND = 1/2 RDL) (OC normalized)	mg/kg-OC	370	--	--	--	--	--	--	--	--
Other Semivolatile Organic Compounds (SVOCs)										
2,4-Dimethylphenol	mg/kg	0.029	--	--	--	--	--	--	--	--
4-Methylphenol	mg/kg	0.67	--	--	--	--	--	--	--	--
Benzoic Acid	mg/kg	0.65	--	--	--	--	--	--	--	--
Benzyl Alcohol	mg/kg	0.057	--	--	--	--	--	--	--	--
Benzyl butyl phthalate	mg/kg	0.063	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate	mg/kg	1.3	--	--	--	--	--	--	--	--
Dibenzofuran	mg/kg	0.54	--	--	--	--	--	--	--	--
Dimethyl phthalate	mg/kg	0.071	--	--	--	--	--	--	--	--
Hexachlorobenzene	mg/kg	0.022	--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	mg/kg	0.028	--	--	--	--	--	--	--	--
Pentachlorophenol	mg/kg	0.36	--	--	--	--	--	--	--	--
Phenol	mg/kg	0.42	--	--	--	--	--	--	--	--
Other Semivolatile Organic Compounds (SVOCs) - OC Normalized										
Benzyl butyl phthalate (OC normalized)	mg/kg-OC	4.9	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate (OC normalized)	mg/kg-OC	47	--	--	--	--	--	--	--	--
Dibenzofuran (OC normalized)	mg/kg-OC	15	--	--	--	--	--	--	--	--
Dimethyl phthalate (OC normalized)	mg/kg-OC	53	--	--	--	--	--	--	--	--
Hexachlorobenzene (OC normalized)	mg/kg-OC	0.38	--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine (OC normalized)	mg/kg-OC	11	--	--	--	--	--	--	--	--
Volatile Organic Compounds (VOCs)										
1,2,4-Trichlorobenzene	mg/kg	0.031	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	0.035	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	0.11	--	--	--	--	--	--	--	--
Volatile Organic Compounds (VOCs) - OC Normalized										
1,2,4-Trichlorobenzene (OC normalized)	mg/kg-OC	0.81	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene (OC normalized)	mg/kg-OC	2.3	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene (OC normalized)	mg/kg-OC	3.1	--	--	--	--	--	--	--	--
Conventionals										
Total Organic Carbon	%		**1.6**	**1.62**	**1.62**	**2.39**	**2.18**	**1.81 J**	**2.12**	**1.3**

Table H.3.B. Subsurface Sediment Analytical Data - Full Dataset - LDW COCs

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Gray - Sample not included as part of the refined dataset.
Pink Shaded - Outside accepted Total organic carbon (TOC) range.
Green Shaded - Sample TOC outside range for associated screening level (SL).
Light Blue Shaded - Nondetected result (reporting limit) exceeded Initial SL.
Purple Shaded - Detected result exceeded Initial SL.

			Location	LDW21-SC558	LDW21-SC560	LDW21-SC560	LDW21-SC560	LDW21-SC560	LDW21-SC562	LDW21-SC563	LDW21-SC564
			Date	06/29/21	06/29/21	06/29/21	06/29/21	06/29/21	07/13/21	07/20/21	06/29/21
			Sample ID	LDW21-SC558K	LDW21-SC560B	LDW21-SC560C	LDW21-SC560E	LDW21-SC560F	LDW21-SC562C	LDW21-SC563A	LDW21-SC564A
			Depth	436 - 466 cm	60 - 90 cm	90 - 120 cm	150 - 196 cm	196 - 245 cm	109 - 169 cm	0 - 73 cm	0 - 87 cm
Analyte	**Unit**	**Initial SL**									
Metals											
Arsenic	mg/kg	7		--	--	--	--	--	--	--	--
Cadmium	mg/kg	5.1		--	--	--	--	--	--	--	--
Chromium	mg/kg	260		--	--	--	--	--	--	--	--
Copper	mg/kg	390		--	--	--	--	--	--	--	--
Lead	mg/kg	450		--	--	--	--	--	--	--	--
Mercury	mg/kg	0.41		--	--	--	--	--	--	--	--
Silver	mg/kg	6.1		--	--	--	--	--	--	--	--
Zinc	mg/kg	410		--	--	--	--	--	--	--	--
Polychlorinated Biphenyl (PCB) Aroclors											
Total PCB Aroclors (ND = 0)	mg/kg	0.002		**0.212 J**	**0.473 J**	**0.425 J**	**0.592 J**	**0.0464**	**0.109 J**	**0.0206 J**	**0.059 J**
Polychlorinated Biphenyl (PCB) Aroclors - OC Normalized											
Total PCB Aroclors (ND = 0) (OC normalized), within TOC of 0.5-3.5%	mg/kg-OC	12		**6.88 J**	**19.5 J**	**14.3 J**	**26.3 J**	**27.3**	**6.26 J**	**1.46 J**	**3.01 J**
Polychlorinated Biphenyl (PCB) Congeners											
Total PCB Congeners (ND = 0)	mg/kg	0.002		--	--	--	--	--	--	--	--
Polychlorinated Biphenyl (PCB) Congeners - OC Normalized											
Total PCB Congeners (ND = 0) (OC normalized), within TOC of 0.5-3.5%	mg/kg-OC	12		--	--	--	--	--	--	--	--
Dioxins/Furans											
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	2E-06		--	--	--	--	--	--	--	**2.56E-06 J**
Polycyclic Aromatic Hydrocarbons (PAHs)											
2-Methylnaphthalene	mg/kg	0.67		--	--	--	--	--	--	--	--
Acenaphthene	mg/kg	0.5		--	--	--	--	--	--	--	--
Anthracene	mg/kg	0.96		--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene	mg/kg	0.67		--	--	--	--	--	--	--	--
Fluoranthene	mg/kg	1.7		--	--	--	--	--	--	--	--
Fluorene	mg/kg	0.54		--	--	--	--	--	--	--	--
Naphthalene	mg/kg	2.1		--	--	--	--	--	--	--	--
Phenanthrene	mg/kg	1.5		--	--	--	--	--	--	--	--
Pyrene	mg/kg	2.6		--	--	--	--	--	--	--	--
Benz(a)anthracene	mg/kg	1.3		--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	1.6		--	--	--	--	--	--	--	--
Chrysene	mg/kg	1.4		--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	0.23		--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	0.6		--	--	--	--	--	--	--	--
Total Benzofluoranthenes	mg/kg	3.2		--	--	--	--	--	--	--	--
Total HPAHs (ND = 1/2 RDL)	mg/kg	12		--	--	--	--	--	--	--	--
Total LPAHs (ND = 1/2 RDL)	mg/kg	5.2		--	--	--	--	--	--	--	--
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	0.59		--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs) - OC Normalized											
2-Methylnaphthalene (OC normalized)	mg/kg-OC	38		--	--	--	--	--	--	--	--
Acenaphthene (OC normalized)	mg/kg-OC	16		--	--	--	--	--	--	--	--
Anthracene (OC normalized)	mg/kg-OC	220		--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (OC normalized)	mg/kg-OC	31		--	--	--	--	--	--	--	--
Fluoranthene (OC normalized)	mg/kg-OC	160		--	--	--	--	--	--	--	--
Fluorene (OC normalized)	mg/kg-OC	23		--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene (OC normalized)	mg/kg-OC	34		--	--	--	--	--	--	--	--
Naphthalene (OC normalized)	mg/kg-OC	99		--	--	--	--	--	--	--	--
Phenanthrene (OC normalized)	mg/kg-OC	100		--	--	--	--	--	--	--	--
Pyrene (OC normalized)	mg/kg-OC	1000		--	--	--	--	--	--	--	--
Benz(a)anthracene (OC normalized)	mg/kg-OC	110		--	--	--	--	--	--	--	--
Benzo(a)pyrene (OC normalized)	mg/kg-OC	99		--	--	--	--	--	--	--	--
Chrysene (OC normalized)	mg/kg-OC	110		--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (OC normalized)	mg/kg-OC	12		--	--	--	--	--	--	--	--
Total Benzofluoranthenes (OC normalized)	mg/kg-OC	230		--	--	--	--	--	--	--	--
Total HPAHs (ND = 1/2 RDL) (OC normalized)	mg/kg-OC	960		--	--	--	--	--	--	--	--
Total LPAHs (ND = 1/2 RDL) (OC normalized)	mg/kg-OC	370		--	--	--	--	--	--	--	--
Other Semivolatile Organic Compounds (SVOCs)											
2,4-Dimethylphenol	mg/kg	0.029		--	--	--	--	--	--	--	--
4-Methylphenol	mg/kg	0.67		--	--	--	--	--	--	--	--
Benzoic Acid	mg/kg	0.65		--	--	--	--	--	--	--	--
Benzyl Alcohol	mg/kg	0.057		--	--	--	--	--	--	--	--
Benzyl butyl phthalate	mg/kg	0.063		--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate	mg/kg	1.3		--	--	--	--	--	--	--	--
Dibenzofuran	mg/kg	0.54		--	--	--	--	--	--	--	--
Dimethyl phthalate	mg/kg	0.071		--	--	--	--	--	--	--	--
Hexachlorobenzene	mg/kg	0.022		--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	mg/kg	0.028		--	--	--	--	--	--	--	--
Pentachlorophenol	mg/kg	0.36		--	--	--	--	--	--	--	--
Phenol	mg/kg	0.42		--	--	--	--	--	--	--	--
Other Semivolatile Organic Compounds (SVOCs) - OC Normalized											
Benzyl butyl phthalate (OC normalized)	mg/kg-OC	4.9		--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate (OC normalized)	mg/kg-OC	47		--	--	--	--	--	--	--	--
Dibenzofuran (OC normalized)	mg/kg-OC	15		--	--	--	--	--	--	--	--
Dimethyl phthalate (OC normalized)	mg/kg-OC	53		--	--	--	--	--	--	--	--
Hexachlorobenzene (OC normalized)	mg/kg-OC	0.38		--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine (OC normalized)	mg/kg-OC	11		--	--	--	--	--	--	--	--
Volatile Organic Compounds (VOCs)											
1,2,4-Trichlorobenzene	mg/kg	0.031		--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	0.035		--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	0.11		--	--	--	--	--	--	--	--
Volatile Organic Compounds (VOCs) - OC Normalized											
1,2,4-Trichlorobenzene (OC normalized)	mg/kg-OC	0.81		--	--	--	--	--	--	--	--
1,2-Dichlorobenzene (OC normalized)	mg/kg-OC	2.3		--	--	--	--	--	--	--	--
1,4-Dichlorobenzene (OC normalized)	mg/kg-OC	3.1		--	--	--	--	--	--	--	--
Conventionals											
Total Organic Carbon	%			**3.08**	**2.42**	**2.98**	**2.25**	**0.17**	**1.74**	**1.41**	**1.96**

Table H.3.B. Subsurface Sediment Analytical Data - Full Dataset - LDW COCs

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Gray - Sample not included as part of the refined dataset.
Pink Shaded - Outside accepted Total organic carbon (TOC) range.
Green Shaded - Sample TOC outside range for associated screening level (SL).
Light Blue Shaded - Nondetected result (reporting limit) exceeded Initial SL.
Purple Shaded - Detected result exceeded Initial SL.

			Location	LDW21-SC564	LDW21-SC564	LDW21-SC564	LDW21-SC564	LDW21-SC564	LDW21-SC564	LDW21-SC564	LDW21-SC564
			Date	06/29/21	06/29/21	06/29/21	06/29/21	06/29/21	06/29/21	06/29/21	06/29/21
			Sample ID	LDW21-SC564B	LDW21-SC564C	LDW21-SC564D	LDW21-SC564E	LDW21-SC564G	LDW21-SC564H	LDW21-SC564I	LDW21-SC564K
			Depth	87 - 174 cm	174 - 234 cm	234 - 264 cm	264 - 294 cm	324 - 354 cm	354 - 384 cm	384 - 414 cm	444 - 474 cm
Analyte	**Unit**	**Initial SL**									
Metals											
Arsenic	mg/kg	7		--	--	--	--	--	--	--	--
Cadmium	mg/kg	5.1		--	--	--	--	--	--	--	--
Chromium	mg/kg	260		--	--	--	--	--	--	--	--
Copper	mg/kg	390		--	--	--	--	--	--	--	--
Lead	mg/kg	450		--	--	--	--	--	--	--	--
Mercury	mg/kg	0.41		--	--	--	--	--	--	--	--
Silver	mg/kg	6.1		--	--	--	--	--	--	--	--
Zinc	mg/kg	410		--	--	--	--	--	--	--	--
Polychlorinated Biphenyl (PCB) Aroclors											
Total PCB Aroclors (ND = 0)	mg/kg	0.002		**0.0331 J**	**0.0618 J**	**0.101**	**0.103 J**	**0.166 J**	**0.216**	**0.39**	**0.826 J**
Polychlorinated Biphenyl (PCB) Aroclors - OC Normalized											
Total PCB Aroclors (ND = 0) (OC normalized), within TOC of 0.5-3.5%	mg/kg-OC	12		**2.24 J**	**3.14 J**	**3.08**	**6.73 J**	**7.61 J**	**6.17**	**17.5**	**27.4 J**
Polychlorinated Biphenyl (PCB) Congeners											
Total PCB Congeners (ND = 0)	mg/kg	0.002		--	--	--	--	--	--	--	--
Polychlorinated Biphenyl (PCB) Congeners - OC Normalized											
Total PCB Congeners (ND = 0) (OC normalized), within TOC of 0.5-3.5%	mg/kg-OC	12		--	--	--	--	--	--	--	--
Dioxins/Furans											
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	2E-06		**1.52E-06 J**	**1.8E-06 J**	**3.94E-06 J**	**2.03E-06 J**	**1.16E-05 J**	--	**2.24E-05 J**	**1.59E-05 J**
Polycyclic Aromatic Hydrocarbons (PAHs)											
2-Methylnaphthalene	mg/kg	0.67		--	--	--	--	--	--	--	--
Acenaphthene	mg/kg	0.5		--	--	--	--	--	--	--	--
Anthracene	mg/kg	0.96		--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene	mg/kg	0.67		--	--	--	--	--	--	--	--
Fluoranthene	mg/kg	1.7		--	--	--	--	--	--	--	--
Fluorene	mg/kg	0.54		--	--	--	--	--	--	--	--
Naphthalene	mg/kg	2.1		--	--	--	--	--	--	--	--
Phenanthrene	mg/kg	1.5		--	--	--	--	--	--	--	--
Pyrene	mg/kg	2.6		--	--	--	--	--	--	--	--
Benz(a)anthracene	mg/kg	1.3		--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	1.6		--	--	--	--	--	--	--	--
Chrysene	mg/kg	1.4		--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	0.23		--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	0.6		--	--	--	--	--	--	--	--
Total Benzofluoranthenes	mg/kg	3.2		--	--	--	--	--	--	--	--
Total HPAHs (ND = 1/2 RDL)	mg/kg	12		--	--	--	--	--	--	--	--
Total LPAHs (ND = 1/2 RDL)	mg/kg	5.2		--	--	--	--	--	--	--	--
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	0.59		--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs) - OC Normalized											
2-Methylnaphthalene (OC normalized)	mg/kg-OC	38		--	--	--	--	--	--	--	--
Acenaphthene (OC normalized)	mg/kg-OC	16		--	--	--	--	--	--	--	--
Anthracene (OC normalized)	mg/kg-OC	220		--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (OC normalized)	mg/kg-OC	31		--	--	--	--	--	--	--	--
Fluoranthene (OC normalized)	mg/kg-OC	160		--	--	--	--	--	--	--	--
Fluorene (OC normalized)	mg/kg-OC	23		--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene (OC normalized)	mg/kg-OC	34		--	--	--	--	--	--	--	--
Naphthalene (OC normalized)	mg/kg-OC	99		--	--	--	--	--	--	--	--
Phenanthrene (OC normalized)	mg/kg-OC	100		--	--	--	--	--	--	--	--
Pyrene (OC normalized)	mg/kg-OC	1000		--	--	--	--	--	--	--	--
Benz(a)anthracene (OC normalized)	mg/kg-OC	110		--	--	--	--	--	--	--	--
Benzo(a)pyrene (OC normalized)	mg/kg-OC	99		--	--	--	--	--	--	--	--
Chrysene (OC normalized)	mg/kg-OC	110		--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (OC normalized)	mg/kg-OC	12		--	--	--	--	--	--	--	--
Total Benzofluoranthenes (OC normalized)	mg/kg-OC	230		--	--	--	--	--	--	--	--
Total HPAHs (ND = 1/2 RDL) (OC normalized)	mg/kg-OC	960		--	--	--	--	--	--	--	--
Total LPAHs (ND = 1/2 RDL) (OC normalized)	mg/kg-OC	370		--	--	--	--	--	--	--	--
Other Semivolatile Organic Compounds (SVOCs)											
2,4-Dimethylphenol	mg/kg	0.029		--	--	--	--	--	--	--	--
4-Methylphenol	mg/kg	0.67		--	--	--	--	--	--	--	--
Benzoic Acid	mg/kg	0.65		--	--	--	--	--	--	--	--
Benzyl Alcohol	mg/kg	0.057		--	--	--	--	--	--	--	--
Benzyl butyl phthalate	mg/kg	0.063		--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate	mg/kg	1.3		--	--	--	--	--	--	--	--
Dibenzofuran	mg/kg	0.54		--	--	--	--	--	--	--	--
Dimethyl phthalate	mg/kg	0.071		--	--	--	--	--	--	--	--
Hexachlorobenzene	mg/kg	0.022		--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	mg/kg	0.028		--	--	--	--	--	--	--	--
Pentachlorophenol	mg/kg	0.36		--	--	--	--	--	--	--	--
Phenol	mg/kg	0.42		--	--	--	--	--	--	--	--
Other Semivolatile Organic Compounds (SVOCs) - OC Normalized											
Benzyl butyl phthalate (OC normalized)	mg/kg-OC	4.9		--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate (OC normalized)	mg/kg-OC	47		--	--	--	--	--	--	--	--
Dibenzofuran (OC normalized)	mg/kg-OC	15		--	--	--	--	--	--	--	--
Dimethyl phthalate (OC normalized)	mg/kg-OC	53		--	--	--	--	--	--	--	--
Hexachlorobenzene (OC normalized)	mg/kg-OC	0.38		--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine (OC normalized)	mg/kg-OC	11		--	--	--	--	--	--	--	--
Volatile Organic Compounds (VOCs)											
1,2,4-Trichlorobenzene	mg/kg	0.031		--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	0.035		--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	0.11		--	--	--	--	--	--	--	--
Volatile Organic Compounds (VOCs) - OC Normalized											
1,2,4-Trichlorobenzene (OC normalized)	mg/kg-OC	0.81		--	--	--	--	--	--	--	--
1,2-Dichlorobenzene (OC normalized)	mg/kg-OC	2.3		--	--	--	--	--	--	--	--
1,4-Dichlorobenzene (OC normalized)	mg/kg-OC	3.1		--	--	--	--	--	--	--	--
Conventionals											
Total Organic Carbon	%			**1.48**	**1.97**	**3.28**	**1.53**	**2.18**	**3.5 J**	**2.23**	**3.02**

Table H.3.B. Subsurface Sediment Analytical Data - Full Dataset - LDW COCs

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Gray - Sample not included as part of the refined dataset.
Pink Shaded - Outside accepted Total organic carbon (TOC) range.
Green Shaded - Sample TOC outside range for associated screening level (SL).
Light Blue Shaded - Nondetected result (reporting limit) exceeded Initial SL.
Purple Shaded - Detected result exceeded Initial SL.

			Location	LDW21-SC564	SC-01	SC-01	SC-02	SC-02	SC-03	SC-03
			Date	06/29/21	02/25/16	02/25/16	02/24/16	02/24/16	02/25/16	02/25/16
			Sample ID	LDW21-SC564L	SPM-SC-01-02252016-0.1-1	SPM-SC-01-02252016-1-2	SPM-SC-02-02242016-0.1-1	SPM-SC-02-02242016-1-2	SPM-SC-03-02252016-0.1-1	SPM-SC-03-02252016-1-2
			Depth	474 - 504 cm	10 - 100 cm	100 - 200 cm	10 - 100 cm	100 - 200 cm	10 - 100 cm	100 - 200 cm
Analyte	**Unit**	**Initial SL**								
Metals										
Arsenic	mg/kg	7		--	--	--	--	--	--	--
Cadmium	mg/kg	5.1		--	--	--	--	--	--	--
Chromium	mg/kg	260		--	--	--	--	--	--	--
Copper	mg/kg	390		--	--	--	--	--	--	--
Lead	mg/kg	450		--	--	--	--	--	--	--
Mercury	mg/kg	0.41		--	--	--	--	--	--	--
Silver	mg/kg	6.1		--	--	--	--	--	--	--
Zinc	mg/kg	410		--	--	--	--	--	--	--
Polychlorinated Biphenyl (PCB) Aroclors										
Total PCB Aroclors (ND = 0)	mg/kg	0.002		**0.259**	**0.024**	**0.052**	**0.05**	**0.043**	**0.027**	**0.06**
Polychlorinated Biphenyl (PCB) Aroclors - OC Normalized										
Total PCB Aroclors (ND = 0) (OC normalized), within TOC of 0.5-3.5%	mg/kg-OC	12		**17.4**	**1.62**	**3.38**	**2.19**	**2.4**	**1.44**	**3.68**
Polychlorinated Biphenyl (PCB) Congeners										
Total PCB Congeners (ND = 0)	mg/kg	0.002		--	**0.0563 J**	**0.104 J**	**0.022 J**	**0.0132 J**	**0.0118 J**	**0.0192 J**
Polychlorinated Biphenyl (PCB) Congeners - OC Normalized										
Total PCB Congeners (ND = 0) (OC normalized), within TOC of 0.5-3.5%	mg/kg-OC	12		--	**3.80 J**	**6.80 J**	**0.96 J**	**0.74 J**	**0.63 J**	**1.20 J**
Dioxins/Furans										
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	2E-06		--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)										
2-Methylnaphthalene	mg/kg	0.67		--	--	--	--	--	--	--
Acenaphthene	mg/kg	0.5		--	--	--	--	--	--	--
Anthracene	mg/kg	0.96		--	--	--	--	--	--	--
Benzo(g,h,i)perylene	mg/kg	0.67		--	--	--	--	--	--	--
Fluoranthene	mg/kg	1.7		--	--	--	--	--	--	--
Fluorene	mg/kg	0.54		--	--	--	--	--	--	--
Naphthalene	mg/kg	2.1		--	--	--	--	--	--	--
Phenanthrene	mg/kg	1.5		--	--	--	--	--	--	--
Pyrene	mg/kg	2.6		--	--	--	--	--	--	--
Benz(a)anthracene	mg/kg	1.3		--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	1.6		--	--	--	--	--	--	--
Chrysene	mg/kg	1.4		--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	0.23		--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	0.6		--	--	--	--	--	--	--
Total Benzofluoranthenes	mg/kg	3.2		--	--	--	--	--	--	--
Total HPAHs (ND = 1/2 RDL)	mg/kg	12		--	--	--	--	--	--	--
Total LPAHs (ND = 1/2 RDL)	mg/kg	5.2		--	--	--	--	--	--	--
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	0.59		--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs) - OC Normalized										
2-Methylnaphthalene (OC normalized)	mg/kg-OC	38		--	--	--	--	--	--	--
Acenaphthene (OC normalized)	mg/kg-OC	16		--	--	--	--	--	--	--
Anthracene (OC normalized)	mg/kg-OC	220		--	--	--	--	--	--	--
Benzo(g,h,i)perylene (OC normalized)	mg/kg-OC	31		--	--	--	--	--	--	--
Fluoranthene (OC normalized)	mg/kg-OC	160		--	--	--	--	--	--	--
Fluorene (OC normalized)	mg/kg-OC	23		--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene (OC normalized)	mg/kg-OC	34		--	--	--	--	--	--	--
Naphthalene (OC normalized)	mg/kg-OC	99		--	--	--	--	--	--	--
Phenanthrene (OC normalized)	mg/kg-OC	100		--	--	--	--	--	--	--
Pyrene (OC normalized)	mg/kg-OC	1000		--	--	--	--	--	--	--
Benz(a)anthracene (OC normalized)	mg/kg-OC	110		--	--	--	--	--	--	--
Benzo(a)pyrene (OC normalized)	mg/kg-OC	99		--	--	--	--	--	--	--
Chrysene (OC normalized)	mg/kg-OC	110		--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (OC normalized)	mg/kg-OC	12		--	--	--	--	--	--	--
Total Benzofluoranthenes (OC normalized)	mg/kg-OC	230		--	--	--	--	--	--	--
Total HPAHs (ND = 1/2 RDL) (OC normalized)	mg/kg-OC	960		--	--	--	--	--	--	--
Total LPAHs (ND = 1/2 RDL) (OC normalized)	mg/kg-OC	370		--	--	--	--	--	--	--
Other Semivolatile Organic Compounds (SVOCs)										
2,4-Dimethylphenol	mg/kg	0.029		--	--	--	--	--	--	--
4-Methylphenol	mg/kg	0.67		--	--	--	--	--	--	--
Benzoic Acid	mg/kg	0.65		--	--	--	--	--	--	--
Benzyl Alcohol	mg/kg	0.057		--	--	--	--	--	--	--
Benzyl butyl phthalate	mg/kg	0.063		--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate	mg/kg	1.3		--	--	--	--	--	--	--
Dibenzofuran	mg/kg	0.54		--	--	--	--	--	--	--
Dimethyl phthalate	mg/kg	0.071		--	--	--	--	--	--	--
Hexachlorobenzene	mg/kg	0.022		--	--	--	--	--	--	--
N-Nitrosodiphenylamine	mg/kg	0.028		--	--	--	--	--	--	--
Pentachlorophenol	mg/kg	0.36		--	--	--	--	--	--	--
Phenol	mg/kg	0.42		--	--	--	--	--	--	--
Other Semivolatile Organic Compounds (SVOCs) - OC Normalized										
Benzyl butyl phthalate (OC normalized)	mg/kg-OC	4.9		--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate (OC normalized)	mg/kg-OC	47		--	--	--	--	--	--	--
Dibenzofuran (OC normalized)	mg/kg-OC	15		--	--	--	--	--	--	--
Dimethyl phthalate (OC normalized)	mg/kg-OC	53		--	--	--	--	--	--	--
Hexachlorobenzene (OC normalized)	mg/kg-OC	0.38		--	--	--	--	--	--	--
N-Nitrosodiphenylamine (OC normalized)	mg/kg-OC	11		--	--	--	--	--	--	--
Volatile Organic Compounds (VOCs)										
1,2,4-Trichlorobenzene	mg/kg	0.031		--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	0.035		--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	0.11		--	--	--	--	--	--	--
Volatile Organic Compounds (VOCs) - OC Normalized										
1,2,4-Trichlorobenzene (OC normalized)	mg/kg-OC	0.81		--	--	--	--	--	--	--
1,2-Dichlorobenzene (OC normalized)	mg/kg-OC	2.3		--	--	--	--	--	--	--
1,4-Dichlorobenzene (OC normalized)	mg/kg-OC	3.1		--	--	--	--	--	--	--
Conventionals										
Total Organic Carbon	%			**1.49 J**	**1.48**	**1.54**	**2.28**	**1.79**	**1.87**	**1.63**

Table H.3.B. Subsurface Sediment Analytical Data - Full Dataset - LDW COCs

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Gray - Sample not included as part of the refined dataset.
Pink Shaded - Outside accepted Total organic carbon (TOC) range.
Green Shaded - Sample TOC outside range for associated screening level (SL).
Light Blue Shaded - Nondetected result (reporting limit) exceeded Initial SL.
Purple Shaded - Detected result exceeded Initial SL.

			Location	SC-04	SC-04	SC-05	SC-05	SC-06	SC-06	SC-07
			Date	02/26/16	02/26/16	02/25/16	02/25/16	02/24/16	02/24/16	02/25/16
			Sample ID	SPM-SC-04-02262016-0.1-1	SPM-SC-04-02262016-1-2	SPM-SC-05-02252016-0.1-1	SPM-SC-05-02252016-1-2	SPM-SC-06-02242016-0.1-1	SPM-SC-06-02242016-1-2	SPM-SC-07-02252016-0.1-1
			Depth	10 - 100 cm	100 - 200 cm	10 - 100 cm	100 - 200 cm	10 - 100 cm	100 - 200 cm	10 - 100 cm
Analyte	**Unit**	**Initial SL**								
Metals										
Arsenic	mg/kg	7		--	--	--	--	--	--	--
Cadmium	mg/kg	5.1		--	--	--	--	--	--	--
Chromium	mg/kg	260		--	--	--	--	--	--	--
Copper	mg/kg	390		--	--	--	--	--	--	--
Lead	mg/kg	450		--	--	--	--	--	--	--
Mercury	mg/kg	0.41		--	--	--	--	--	--	--
Silver	mg/kg	6.1		--	--	--	--	--	--	--
Zinc	mg/kg	410		--	--	--	--	--	--	--
Polychlorinated Biphenyl (PCB) Aroclors										
Total PCB Aroclors (ND = 0)	mg/kg	0.002		**0.0423**	**0.043**	0.04 U	0.08 U	**0.042**	**0.065**	0.08 U
Polychlorinated Biphenyl (PCB) Aroclors - OC Normalized										
Total PCB Aroclors (ND = 0) (OC normalized), within TOC of 0.5-3.5%	mg/kg-OC	12		**2.14**	**2.3**	2.02 U	3.94 U	**2.1**	**3.05**	3.65 U
Polychlorinated Biphenyl (PCB) Congeners										
Total PCB Congeners (ND = 0)	mg/kg	0.002		**0.0434 J**	**0.0976 J**	**0.0063 J**	**0.0147 J**	**0.0146 J**	**0.0239 J**	**0.0772 J**
Polychlorinated Biphenyl (PCB) Congeners - OC Normalized										
Total PCB Congeners (ND = 0) (OC normalized), within TOC of 0.5-3.5%	mg/kg-OC	12		**2.20 J**	**5.20 J**	**3.20 J**	**7.20 J**	**7.30 J**	**1.10 J**	**3.50 J**
Dioxins/Furans										
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	2E-06		--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)										
2-Methylnaphthalene	mg/kg	0.67		--	--	--	--	--	--	--
Acenaphthene	mg/kg	0.5		--	--	--	--	--	--	--
Anthracene	mg/kg	0.96		--	--	--	--	--	--	--
Benzo(g,h,i)perylene	mg/kg	0.67		--	--	--	--	--	--	--
Fluoranthene	mg/kg	1.7		--	--	--	--	--	--	--
Fluorene	mg/kg	0.54		--	--	--	--	--	--	--
Naphthalene	mg/kg	2.1		--	--	--	--	--	--	--
Phenanthrene	mg/kg	1.5		--	--	--	--	--	--	--
Pyrene	mg/kg	2.6		--	--	--	--	--	--	--
Benz(a)anthracene	mg/kg	1.3		--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	1.6		--	--	--	--	--	--	--
Chrysene	mg/kg	1.4		--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	0.23		--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	0.6		--	--	--	--	--	--	--
Total Benzofluoranthenes	mg/kg	3.2		--	--	--	--	--	--	--
Total HPAHs (ND = 1/2 RDL)	mg/kg	12		--	--	--	--	--	--	--
Total LPAHs (ND = 1/2 RDL)	mg/kg	5.2		--	--	--	--	--	--	--
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	0.59		--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs) - OC Normalized										
2-Methylnaphthalene (OC normalized)	mg/kg-OC	38		--	--	--	--	--	--	--
Acenaphthene (OC normalized)	mg/kg-OC	16		--	--	--	--	--	--	--
Anthracene (OC normalized)	mg/kg-OC	220		--	--	--	--	--	--	--
Benzo(g,h,i)perylene (OC normalized)	mg/kg-OC	31		--	--	--	--	--	--	--
Fluoranthene (OC normalized)	mg/kg-OC	160		--	--	--	--	--	--	--
Fluorene (OC normalized)	mg/kg-OC	23		--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene (OC normalized)	mg/kg-OC	34		--	--	--	--	--	--	--
Naphthalene (OC normalized)	mg/kg-OC	99		--	--	--	--	--	--	--
Phenanthrene (OC normalized)	mg/kg-OC	100		--	--	--	--	--	--	--
Pyrene (OC normalized)	mg/kg-OC	1000		--	--	--	--	--	--	--
Benz(a)anthracene (OC normalized)	mg/kg-OC	110		--	--	--	--	--	--	--
Benzo(a)pyrene (OC normalized)	mg/kg-OC	99		--	--	--	--	--	--	--
Chrysene (OC normalized)	mg/kg-OC	110		--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (OC normalized)	mg/kg-OC	12		--	--	--	--	--	--	--
Total Benzofluoranthenes (OC normalized)	mg/kg-OC	230		--	--	--	--	--	--	--
Total HPAHs (ND = 1/2 RDL) (OC normalized)	mg/kg-OC	960		--	--	--	--	--	--	--
Total LPAHs (ND = 1/2 RDL) (OC normalized)	mg/kg-OC	370		--	--	--	--	--	--	--
Other Semivolatile Organic Compounds (SVOCs)										
2,4-Dimethylphenol	mg/kg	0.029		--	--	--	--	--	--	--
4-Methylphenol	mg/kg	0.67		--	--	--	--	--	--	--
Benzoic Acid	mg/kg	0.65		--	--	--	--	--	--	--
Benzyl Alcohol	mg/kg	0.057		--	--	--	--	--	--	--
Benzyl butyl phthalate	mg/kg	0.063		--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate	mg/kg	1.3		--	--	--	--	--	--	--
Dibenzofuran	mg/kg	0.54		--	--	--	--	--	--	--
Dimethyl phthalate	mg/kg	0.071		--	--	--	--	--	--	--
Hexachlorobenzene	mg/kg	0.022		--	--	--	--	--	--	--
N-Nitrosodiphenylamine	mg/kg	0.028		--	--	--	--	--	--	--
Pentachlorophenol	mg/kg	0.36		--	--	--	--	--	--	--
Phenol	mg/kg	0.42		--	--	--	--	--	--	--
Other Semivolatile Organic Compounds (SVOCs) - OC Normalized										
Benzyl butyl phthalate (OC normalized)	mg/kg-OC	4.9		--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate (OC normalized)	mg/kg-OC	47		--	--	--	--	--	--	--
Dibenzofuran (OC normalized)	mg/kg-OC	15		--	--	--	--	--	--	--
Dimethyl phthalate (OC normalized)	mg/kg-OC	53		--	--	--	--	--	--	--
Hexachlorobenzene (OC normalized)	mg/kg-OC	0.38		--	--	--	--	--	--	--
N-Nitrosodiphenylamine (OC normalized)	mg/kg-OC	11		--	--	--	--	--	--	--
Volatile Organic Compounds (VOCs)										
1,2,4-Trichlorobenzene	mg/kg	0.031		--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	0.035		--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	0.11		--	--	--	--	--	--	--
Volatile Organic Compounds (VOCs) - OC Normalized										
1,2,4-Trichlorobenzene (OC normalized)	mg/kg-OC	0.81		--	--	--	--	--	--	--
1,2-Dichlorobenzene (OC normalized)	mg/kg-OC	2.3		--	--	--	--	--	--	--
1,4-Dichlorobenzene (OC normalized)	mg/kg-OC	3.1		--	--	--	--	--	--	--
Conventionals										
Total Organic Carbon	%			**1.98**	**1.87**	**1.98**	**2.03**	**2**	**2.13**	**2.19**

Table H.3.B. Subsurface Sediment Analytical Data - Full Dataset - LDW COCs

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Gray - Sample not included as part of the refined dataset.
Pink Shaded - Outside accepted Total organic carbon (TOC) range.
Green Shaded - Sample TOC outside range for associated screening level (SL).
Light Blue Shaded - Nondetected result (reporting limit) exceeded Initial SL.
Purple Shaded - Detected result exceeded Initial SL.

			Location	SC-07	SC-08	SC-08	SC-09	SC-09	SC-10	SC-10
			Date	02/25/16	02/25/16	02/25/16	02/26/16	02/26/16	02/24/16	02/24/16
			Sample ID	SPM-SC-07-02252016-1-2	SPM-SC-08-02252016-0.1-1	SPM-SC-08-02252016-1-2	SPM-SC-09-02262016-0.1-1	SPM-SC-09-02262016-1-2	SPM-SC-10-02242016-0.1-1	SPM-SC-10-02242016-1-2
			Depth	100 - 200 cm	10 - 100 cm	100 - 200 cm	10 - 100 cm	100 - 200 cm	10 - 100 cm	100 - 200 cm
Analyte	**Unit**	**Initial SL**								
Metals										
Arsenic	mg/kg	7		--	--	--	--	--	--	--
Cadmium	mg/kg	5.1		--	--	--	--	--	--	--
Chromium	mg/kg	260		--	--	--	--	--	--	--
Copper	mg/kg	390		--	--	--	--	--	--	--
Lead	mg/kg	450		--	--	--	--	--	--	--
Mercury	mg/kg	0.41		--	--	--	--	--	--	--
Silver	mg/kg	6.1		--	--	--	--	--	--	--
Zinc	mg/kg	410		--	--	--	--	--	--	--
Polychlorinated Biphenyl (PCB) Aroclors										
Total PCB Aroclors (ND = 0)	mg/kg	0.002		**0.105**	**0.0327**	**0.048**	**0.0653**	**0.061**	**0.074**	**0.069**
Polychlorinated Biphenyl (PCB) Aroclors - OC Normalized										
Total PCB Aroclors (ND = 0) (OC normalized), within TOC of 0.5-3.5%	mg/kg-OC	12		**5.36**	**1.89**	**2.54**	**2.89**	**3**	**3.57**	**3.15**
Polychlorinated Biphenyl (PCB) Congeners										
Total PCB Congeners (ND = 0)	mg/kg	0.002		**0.114 J**	**0.0659 J**	**0.0177 J**	**0.0228 J**	**0.0244 J**	**0.146 J**	**0.141 J**
Polychlorinated Biphenyl (PCB) Congeners - OC Normalized										
Total PCB Congeners (ND = 0) (OC normalized), within TOC of 0.5-3.5%	mg/kg-OC	12		**5.80 J**	**3.80 J**	**0.93 J**	**1.00 J**	**1.20 J**	**7.10 J**	**6.40 J**
Dioxins/Furans										
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	2E-06		--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)										
2-Methylnaphthalene	mg/kg	0.67		--	--	--	--	--	--	--
Acenaphthene	mg/kg	0.5		--	--	--	--	--	--	--
Anthracene	mg/kg	0.96		--	--	--	--	--	--	--
Benzo(g,h,i)perylene	mg/kg	0.67		--	--	--	--	--	--	--
Fluoranthene	mg/kg	1.7		--	--	--	--	--	--	--
Fluorene	mg/kg	0.54		--	--	--	--	--	--	--
Naphthalene	mg/kg	2.1		--	--	--	--	--	--	--
Phenanthrene	mg/kg	1.5		--	--	--	--	--	--	--
Pyrene	mg/kg	2.6		--	--	--	--	--	--	--
Benz(a)anthracene	mg/kg	1.3		--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	1.6		--	--	--	--	--	--	--
Chrysene	mg/kg	1.4		--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	0.23		--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	0.6		--	--	--	--	--	--	--
Total Benzofluoranthenes	mg/kg	3.2		--	--	--	--	--	--	--
Total HPAHs (ND = 1/2 RDL)	mg/kg	12		--	--	--	--	--	--	--
Total LPAHs (ND = 1/2 RDL)	mg/kg	5.2		--	--	--	--	--	--	--
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	0.59		--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs) - OC Normalized										
2-Methylnaphthalene (OC normalized)	mg/kg-OC	38		--	--	--	--	--	--	--
Acenaphthene (OC normalized)	mg/kg-OC	16		--	--	--	--	--	--	--
Anthracene (OC normalized)	mg/kg-OC	220		--	--	--	--	--	--	--
Benzo(g,h,i)perylene (OC normalized)	mg/kg-OC	31		--	--	--	--	--	--	--
Fluoranthene (OC normalized)	mg/kg-OC	160		--	--	--	--	--	--	--
Fluorene (OC normalized)	mg/kg-OC	23		--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene (OC normalized)	mg/kg-OC	34		--	--	--	--	--	--	--
Naphthalene (OC normalized)	mg/kg-OC	99		--	--	--	--	--	--	--
Phenanthrene (OC normalized)	mg/kg-OC	100		--	--	--	--	--	--	--
Pyrene (OC normalized)	mg/kg-OC	1000		--	--	--	--	--	--	--
Benz(a)anthracene (OC normalized)	mg/kg-OC	110		--	--	--	--	--	--	--
Benzo(a)pyrene (OC normalized)	mg/kg-OC	99		--	--	--	--	--	--	--
Chrysene (OC normalized)	mg/kg-OC	110		--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (OC normalized)	mg/kg-OC	12		--	--	--	--	--	--	--
Total Benzofluoranthenes (OC normalized)	mg/kg-OC	230		--	--	--	--	--	--	--
Total HPAHs (ND = 1/2 RDL) (OC normalized)	mg/kg-OC	960		--	--	--	--	--	--	--
Total LPAHs (ND = 1/2 RDL) (OC normalized)	mg/kg-OC	370		--	--	--	--	--	--	--
Other Semivolatile Organic Compounds (SVOCs)										
2,4-Dimethylphenol	mg/kg	0.029		--	--	--	--	--	--	--
4-Methylphenol	mg/kg	0.67		--	--	--	--	--	--	--
Benzoic Acid	mg/kg	0.65		--	--	--	--	--	--	--
Benzyl Alcohol	mg/kg	0.057		--	--	--	--	--	--	--
Benzyl butyl phthalate	mg/kg	0.063		--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate	mg/kg	1.3		--	--	--	--	--	--	--
Dibenzofuran	mg/kg	0.54		--	--	--	--	--	--	--
Dimethyl phthalate	mg/kg	0.071		--	--	--	--	--	--	--
Hexachlorobenzene	mg/kg	0.022		--	--	--	--	--	--	--
N-Nitrosodiphenylamine	mg/kg	0.028		--	--	--	--	--	--	--
Pentachlorophenol	mg/kg	0.36		--	--	--	--	--	--	--
Phenol	mg/kg	0.42		--	--	--	--	--	--	--
Other Semivolatile Organic Compounds (SVOCs) - OC Normalized										
Benzyl butyl phthalate (OC normalized)	mg/kg-OC	4.9		--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate (OC normalized)	mg/kg-OC	47		--	--	--	--	--	--	--
Dibenzofuran (OC normalized)	mg/kg-OC	15		--	--	--	--	--	--	--
Dimethyl phthalate (OC normalized)	mg/kg-OC	53		--	--	--	--	--	--	--
Hexachlorobenzene (OC normalized)	mg/kg-OC	0.38		--	--	--	--	--	--	--
N-Nitrosodiphenylamine (OC normalized)	mg/kg-OC	11		--	--	--	--	--	--	--
Volatile Organic Compounds (VOCs)										
1,2,4-Trichlorobenzene	mg/kg	0.031		--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	0.035		--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	0.11		--	--	--	--	--	--	--
Volatile Organic Compounds (VOCs) - OC Normalized										
1,2,4-Trichlorobenzene (OC normalized)	mg/kg-OC	0.81		--	--	--	--	--	--	--
1,2-Dichlorobenzene (OC normalized)	mg/kg-OC	2.3		--	--	--	--	--	--	--
1,4-Dichlorobenzene (OC normalized)	mg/kg-OC	3.1		--	--	--	--	--	--	--
Conventionals										
Total Organic Carbon	%			**1.96**	**1.73**	**1.89**	**2.26**	**2.03**	**2.07**	**2.19**

Table H.3.B. Subsurface Sediment Analytical Data - Full Dataset - LDW COCs

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Gray - Sample not included as part of the refined dataset.
Pink Shaded - Outside accepted Total organic carbon (TOC) range.
Green Shaded - Sample TOC outside range for associated screening level (SL).
Light Blue Shaded - Nondetected result (reporting limit) exceeded Initial SL.
Purple Shaded - Detected result exceeded Initial SL.

			Location	SC-11	SC-11	SC-12	SC-12	SC-13	SC-13	SC-14
			Date	02/25/16	02/25/16	02/26/16	02/26/16	02/26/16	02/26/16	02/25/16
			Sample ID	SPM-SC-11-02252016-0.1-1	SPM-SC-11-02252016-1-2	SPM-SC-12-02262016-0.1-1	SPM-SC-12-02262016-1-2	SPM-SC-13-02262016-0.1-1	SPM-SC-13-02262016-1-2	SPM-SC-14-02252016-0.1-1
			Depth	10 - 100 cm	100 - 200 cm	10 - 100 cm	100 - 200 cm	10 - 100 cm	100 - 200 cm	10 - 100 cm
Analyte	**Unit**	**Initial SL**								
Metals										
Arsenic	mg/kg	7		--	--	--	--	--	--	--
Cadmium	mg/kg	5.1		--	--	--	--	--	--	--
Chromium	mg/kg	260		--	--	--	--	--	--	--
Copper	mg/kg	390		--	--	--	--	--	--	--
Lead	mg/kg	450		--	--	--	--	--	--	--
Mercury	mg/kg	0.41		--	--	--	--	--	--	--
Silver	mg/kg	6.1		--	--	--	--	--	--	--
Zinc	mg/kg	410		--	--	--	--	--	--	--
Polychlorinated Biphenyl (PCB) Aroclors										
Total PCB Aroclors (ND = 0)	mg/kg	0.002		**0.104**	**0.104**	**0.112**	**0.114**	**0.132**	**0.14**	**0.076**
Polychlorinated Biphenyl (PCB) Aroclors - OC Normalized										
Total PCB Aroclors (ND = 0) (OC normalized), within TOC of 0.5-3.5%	mg/kg-OC	12		**5.28**	**5.52**	**5.74**	**6.63**	**6.57**	**8.59**	**4.25**
Polychlorinated Biphenyl (PCB) Congeners										
Total PCB Congeners (ND = 0)	mg/kg	0.002		**0.166 J**	**0.219**	**0.219 J**	**0.193 J**	**0.190 J**	**0.272 J**	**0.103 J**
Polychlorinated Biphenyl (PCB) Congeners - OC Normalized										
Total PCB Congeners (ND = 0) (OC normalized), within TOC of 0.5-3.5%	mg/kg-OC	12		**8.40 J**	**11**	**11 J**	**11 J**	**9.50 J**	**17 J**	**5.80 J**
Dioxins/Furans										
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	2E-06		--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)										
2-Methylnaphthalene	mg/kg	0.67		--	--	--	--	--	--	--
Acenaphthene	mg/kg	0.5		--	--	--	--	--	--	--
Anthracene	mg/kg	0.96		--	--	--	--	--	--	--
Benzo(g,h,i)perylene	mg/kg	0.67		--	--	--	--	--	--	--
Fluoranthene	mg/kg	1.7		--	--	--	--	--	--	--
Fluorene	mg/kg	0.54		--	--	--	--	--	--	--
Naphthalene	mg/kg	2.1		--	--	--	--	--	--	--
Phenanthrene	mg/kg	1.5		--	--	--	--	--	--	--
Pyrene	mg/kg	2.6		--	--	--	--	--	--	--
Benz(a)anthracene	mg/kg	1.3		--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	1.6		--	--	--	--	--	--	--
Chrysene	mg/kg	1.4		--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	0.23		--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	0.6		--	--	--	--	--	--	--
Total Benzofluoranthenes	mg/kg	3.2		--	--	--	--	--	--	--
Total HPAHs (ND = 1/2 RDL)	mg/kg	12		--	--	--	--	--	--	--
Total LPAHs (ND = 1/2 RDL)	mg/kg	5.2		--	--	--	--	--	--	--
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	0.59		--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs) - OC Normalized										
2-Methylnaphthalene (OC normalized)	mg/kg-OC	38		--	--	--	--	--	--	--
Acenaphthene (OC normalized)	mg/kg-OC	16		--	--	--	--	--	--	--
Anthracene (OC normalized)	mg/kg-OC	220		--	--	--	--	--	--	--
Benzo(g,h,i)perylene (OC normalized)	mg/kg-OC	31		--	--	--	--	--	--	--
Fluoranthene (OC normalized)	mg/kg-OC	160		--	--	--	--	--	--	--
Fluorene (OC normalized)	mg/kg-OC	23		--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene (OC normalized)	mg/kg-OC	34		--	--	--	--	--	--	--
Naphthalene (OC normalized)	mg/kg-OC	99		--	--	--	--	--	--	--
Phenanthrene (OC normalized)	mg/kg-OC	100		--	--	--	--	--	--	--
Pyrene (OC normalized)	mg/kg-OC	1000		--	--	--	--	--	--	--
Benz(a)anthracene (OC normalized)	mg/kg-OC	110		--	--	--	--	--	--	--
Benzo(a)pyrene (OC normalized)	mg/kg-OC	99		--	--	--	--	--	--	--
Chrysene (OC normalized)	mg/kg-OC	110		--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (OC normalized)	mg/kg-OC	12		--	--	--	--	--	--	--
Total Benzofluoranthenes (OC normalized)	mg/kg-OC	230		--	--	--	--	--	--	--
Total HPAHs (ND = 1/2 RDL) (OC normalized)	mg/kg-OC	960		--	--	--	--	--	--	--
Total LPAHs (ND = 1/2 RDL) (OC normalized)	mg/kg-OC	370		--	--	--	--	--	--	--
Other Semivolatile Organic Compounds (SVOCs)										
2,4-Dimethylphenol	mg/kg	0.029		--	--	--	--	--	--	--
4-Methylphenol	mg/kg	0.67		--	--	--	--	--	--	--
Benzoic Acid	mg/kg	0.65		--	--	--	--	--	--	--
Benzyl Alcohol	mg/kg	0.057		--	--	--	--	--	--	--
Benzyl butyl phthalate	mg/kg	0.063		--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate	mg/kg	1.3		--	--	--	--	--	--	--
Dibenzofuran	mg/kg	0.54		--	--	--	--	--	--	--
Dimethyl phthalate	mg/kg	0.071		--	--	--	--	--	--	--
Hexachlorobenzene	mg/kg	0.022		--	--	--	--	--	--	--
N-Nitrosodiphenylamine	mg/kg	0.028		--	--	--	--	--	--	--
Pentachlorophenol	mg/kg	0.36		--	--	--	--	--	--	--
Phenol	mg/kg	0.42		--	--	--	--	--	--	--
Other Semivolatile Organic Compounds (SVOCs) - OC Normalized										
Benzyl butyl phthalate (OC normalized)	mg/kg-OC	4.9		--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate (OC normalized)	mg/kg-OC	47		--	--	--	--	--	--	--
Dibenzofuran (OC normalized)	mg/kg-OC	15		--	--	--	--	--	--	--
Dimethyl phthalate (OC normalized)	mg/kg-OC	53		--	--	--	--	--	--	--
Hexachlorobenzene (OC normalized)	mg/kg-OC	0.38		--	--	--	--	--	--	--
N-Nitrosodiphenylamine (OC normalized)	mg/kg-OC	11		--	--	--	--	--	--	--
Volatile Organic Compounds (VOCs)										
1,2,4-Trichlorobenzene	mg/kg	0.031		--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	0.035		--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	0.11		--	--	--	--	--	--	--
Volatile Organic Compounds (VOCs) - OC Normalized										
1,2,4-Trichlorobenzene (OC normalized)	mg/kg-OC	0.81		--	--	--	--	--	--	--
1,2-Dichlorobenzene (OC normalized)	mg/kg-OC	2.3		--	--	--	--	--	--	--
1,4-Dichlorobenzene (OC normalized)	mg/kg-OC	3.1		--	--	--	--	--	--	--
Conventionals										
Total Organic Carbon	%			**1.97**	**1.92**	**1.95**	**1.72**	**2.01**	**1.63**	**1.79**

Table H.3.B. Subsurface Sediment Analytical Data - Full Dataset - LDW COCs

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Gray - Sample not included as part of the refined dataset.
Pink Shaded - Outside accepted Total organic carbon (TOC) range.
Green Shaded - Sample TOC outside range for associated screening level (SL).
Light Blue Shaded - Nondetected result (reporting limit) exceeded Initial SL.
Purple Shaded - Detected result exceeded Initial SL.

			Location	SC-14	SC-15	SC-15	SC-16	SC-16	*SPRK0302*	*T117-SE-71-SC*
			Date	02/25/16	02/24/16	02/24/16	02/26/16	02/26/16	*09/14/91*	*03/15/04*
			Sample ID	SPM-SC-14-02252016-1-2	SPM-SC-15-02242016-0.1-1	SPM-SC-15-02242016-1-2	SPM-SC-16-02262016-0.1-1	SPM-SC-16-02262016-1-2	*C2*	*T117-SE71-SC-01*
			Depth	100 - 200 cm	10 - 100 cm	100 - 200 cm	10 - 100 cm	100 - 200 cm	*0 - 30 cm*	*0 - 30 cm*
Analyte	**Unit**	**Initial SL**								
Metals										
Arsenic	mg/kg	7		--	--	--	--	--	***8.5***	--
Cadmium	mg/kg	5.1		--	--	--	--	--	***1.4***	--
Chromium	mg/kg	260		--	--	--	--	--	--	--
Copper	mg/kg	390		--	--	--	--	--	***4***	--
Lead	mg/kg	450		--	--	--	--	--	***31***	--
Mercury	mg/kg	0.41		--	--	--	--	--	***0.17***	--
Silver	mg/kg	6.1		--	--	--	--	--	***1.4***	--
Zinc	mg/kg	410		--	--	--	--	--	***89***	--
Polychlorinated Biphenyl (PCB) Aroclors										
Total PCB Aroclors (ND = 0)	mg/kg	0.002		**0.13**	**0.08**	**0.011**	**0.098**	**0.0205**	***0.032***	***0.73***
Polychlorinated Biphenyl (PCB) Aroclors - OC Normalized										
Total PCB Aroclors (ND = 0) (OC normalized), within TOC of 0.5-3.5%	mg/kg-OC	12		**7.03**	**8.84**	**3.01**	**7.97**	**3.95**	***10.7***	***56.2***
Polychlorinated Biphenyl (PCB) Congeners										
Total PCB Congeners (ND = 0)	mg/kg	0.002		**0.243 J**	**0.126 J**	**0.048 J**	**0.184 J**	**0.038 J**	--	--
Polychlorinated Biphenyl (PCB) Congeners - OC Normalized										
Total PCB Congeners (ND = 0) (OC normalized), within TOC of 0.5-3.5%	mg/kg-OC	12		**13 J**	**14 J**	**13 J**	**15 J**	**7.30 J**	--	--
Dioxins/Furans										
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	2E-06		--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)										
2-Methylnaphthalene	mg/kg	0.67		--	--	--	--	--	*0.067 U*	--
Acenaphthene	mg/kg	0.5		--	--	--	--	--	*0.063 U*	--
Anthracene	mg/kg	0.96		--	--	--	--	--	*0.13 U*	--
Benzo(g,h,i)perylene	mg/kg	0.67		--	--	--	--	--	*0.54 U*	--
Fluoranthene	mg/kg	1.7		--	--	--	--	--	*0.63 U*	--
Fluorene	mg/kg	0.54		--	--	--	--	--	*0.064 U*	--
Naphthalene	mg/kg	2.1		--	--	--	--	--	*0.21 U*	--
Phenanthrene	mg/kg	1.5		--	--	--	--	--	*0.32 U*	--
Pyrene	mg/kg	2.6		--	--	--	--	--	*0.43 U*	--
Benz(a)anthracene	mg/kg	1.3		--	--	--	--	--	*0.45 U*	--
Benzo(a)pyrene	mg/kg	1.6		--	--	--	--	--	*0.68 U*	--
Chrysene	mg/kg	1.4		--	--	--	--	--	*0.67 U*	--
Dibenzo(a,h)anthracene	mg/kg	0.23		--	--	--	--	--	*0.12 U*	--
Indeno(1,2,3-cd)pyrene	mg/kg	0.6		--	--	--	--	--	*0.069 U*	--
Total Benzofluoranthenes	mg/kg	3.2		--	--	--	--	--	*0.8 U*	--
Total HPAHs (ND = 1/2 RDL)	mg/kg	12		--	--	--	--	--	--	--
Total LPAHs (ND = 1/2 RDL)	mg/kg	5.2		--	--	--	--	--	--	--
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	0.59		--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs) - OC Normalized										
2-Methylnaphthalene (OC normalized)	mg/kg-OC	38		--	--	--	--	--	*22.3 U*	--
Acenaphthene (OC normalized)	mg/kg-OC	16		--	--	--	--	--	*21 U*	--
Anthracene (OC normalized)	mg/kg-OC	220		--	--	--	--	--	*43.3 U*	--
Benzo(g,h,i)perylene (OC normalized)	mg/kg-OC	31		--	--	--	--	--	*180 U*	--
Fluoranthene (OC normalized)	mg/kg-OC	160		--	--	--	--	--	*210 U*	--
Fluorene (OC normalized)	mg/kg-OC	23		--	--	--	--	--	*21.3 U*	--
Indeno(1,2,3-cd)pyrene (OC normalized)	mg/kg-OC	34		--	--	--	--	--	*23 U*	--
Naphthalene (OC normalized)	mg/kg-OC	99		--	--	--	--	--	*70 U*	--
Phenanthrene (OC normalized)	mg/kg-OC	100		--	--	--	--	--	*107 U*	--
Pyrene (OC normalized)	mg/kg-OC	1000		--	--	--	--	--	*143 U*	--
Benz(a)anthracene (OC normalized)	mg/kg-OC	110		--	--	--	--	--	*150 U*	--
Benzo(a)pyrene (OC normalized)	mg/kg-OC	99		--	--	--	--	--	*227 U*	--
Chrysene (OC normalized)	mg/kg-OC	110		--	--	--	--	--	*223 U*	--
Dibenzo(a,h)anthracene (OC normalized)	mg/kg-OC	12		--	--	--	--	--	*40 U*	--
Total Benzofluoranthenes (OC normalized)	mg/kg-OC	230		--	--	--	--	--	*267 U*	--
Total HPAHs (ND = 1/2 RDL) (OC normalized)	mg/kg-OC	960		--	--	--	--	--	--	--
Total LPAHs (ND = 1/2 RDL) (OC normalized)	mg/kg-OC	370		--	--	--	--	--	--	--
Other Semivolatile Organic Compounds (SVOCs)										
2,4-Dimethylphenol	mg/kg	0.029		--	--	--	--	--	*0.029 U*	--
4-Methylphenol	mg/kg	0.67		--	--	--	--	--	*0.12 U*	--
Benzoic Acid	mg/kg	0.65		--	--	--	--	--	*0.4 U*	--
Benzyl Alcohol	mg/kg	0.057		--	--	--	--	--	*0.025 U*	--
Benzyl butyl phthalate	mg/kg	0.063		--	--	--	--	--	*0.47 U*	--
Bis(2-ethylhexyl) phthalate	mg/kg	1.3		--	--	--	--	--	*3.1 U*	--
Dibenzofuran	mg/kg	0.54		--	--	--	--	--	*0.054 U*	--
Dimethyl phthalate	mg/kg	0.071		--	--	--	--	--	*0.16 U*	--
Hexachlorobenzene	mg/kg	0.022		--	--	--	--	--	*0.023 U*	--
N-Nitrosodiphenylamine	mg/kg	0.028		--	--	--	--	--	*0.028 U*	--
Pentachlorophenol	mg/kg	0.36		--	--	--	--	--	*0.1 U*	--
Phenol	mg/kg	0.42		--	--	--	--	--	*0.12 U*	--
Other Semivolatile Organic Compounds (SVOCs) - OC Normalized										
Benzyl butyl phthalate (OC normalized)	mg/kg-OC	4.9		--	--	--	--	--	*157 U*	--
Bis(2-ethylhexyl) phthalate (OC normalized)	mg/kg-OC	47		--	--	--	--	--	*1030 U*	--
Dibenzofuran (OC normalized)	mg/kg-OC	15		--	--	--	--	--	*18 U*	--
Dimethyl phthalate (OC normalized)	mg/kg-OC	53		--	--	--	--	--	*53.3 U*	--
Hexachlorobenzene (OC normalized)	mg/kg-OC	0.38		--	--	--	--	--	*7.67 U*	--
N-Nitrosodiphenylamine (OC normalized)	mg/kg-OC	11		--	--	--	--	--	*9.33 U*	--
Volatile Organic Compounds (VOCs)										
1,2,4-Trichlorobenzene	mg/kg	0.031		--	--	--	--	--	*0.013 U*	--
1,2-Dichlorobenzene	mg/kg	0.035		--	--	--	--	--	*0.019 U*	--
1,4-Dichlorobenzene	mg/kg	0.11		--	--	--	--	--	*0.026 U*	--
Volatile Organic Compounds (VOCs) - OC Normalized										
1,2,4-Trichlorobenzene (OC normalized)	mg/kg-OC	0.81		--	--	--	--	--	*4.33 U*	--
1,2-Dichlorobenzene (OC normalized)	mg/kg-OC	2.3		--	--	--	--	--	*6.33 U*	--
1,4-Dichlorobenzene (OC normalized)	mg/kg-OC	3.1		--	--	--	--	--	*8.67 U*	--
Conventionals										
Total Organic Carbon	%			**1.85**	**0.905**	**0.366**	**1.23**	**0.519**	***0.3***	***1.3***

Table H.3.B. Subsurface Sediment Analytical Data - Full Dataset - LDW COCs

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Gray - Sample not included as part of the refined dataset.
Pink Shaded - Outside accepted Total organic carbon (TOC) range.
Green Shaded - Sample TOC outside range for associated screening level (SL).
Light Blue Shaded - Nondetected result (reporting limit) exceeded Initial SL.
Purple Shaded - Detected result exceeded Initial SL.

			Location	T117-SE-71-SC	T117-SE-71-SC	T117-SE-72-SC	T117-SE-72-SC	T117-SE-72-SC	T117-SE-89-SC	T117-SE-91-SC	T117-SE-93-SC
			Date	03/15/04	03/15/04	03/16/04	03/16/04	03/16/04	09/16/04	09/16/04	09/16/04
			Sample ID	T117-SE71-SC-12	T117-SE71-SC-2-2.7	T117-SE72-SC-01	T117-SE72-SC-12	T117-SE72-SC-2-2.4	T117-SE89-SC-02	T117-SE91-SC-02	T117-SE93-SC-02
			Depth	30 - 60 cm	60 - 82 cm	0 - 30 cm	30 - 60 cm	60 - 73 cm	300 - 543 cm	0 - 60 cm	0 - 60 cm
Analyte	**Unit**	**Initial SL**									
Metals											
Arsenic	mg/kg	7		--	--	--	--	--	--	--	--
Cadmium	mg/kg	5.1		--	--	--	--	--	--	--	--
Chromium	mg/kg	260		--	--	--	--	--	--	--	--
Copper	mg/kg	390		--	--	--	--	--	--	--	--
Lead	mg/kg	450		--	--	--	--	--	--	--	--
Mercury	mg/kg	0.41		--	--	--	--	--	--	--	--
Silver	mg/kg	6.1		--	--	--	--	--	--	--	--
Zinc	mg/kg	410		--	--	--	--	--	--	--	--
Polychlorinated Biphenyl (PCB) Aroclors											
Total PCB Aroclors (ND = 0)	mg/kg	0.002		*0.019 UA*	*0.02 UA*	***0.54***	***1.41***	***2.2***	**0.38**	***0.142***	***0.15***
Polychlorinated Biphenyl (PCB) Aroclors - OC Normalized											
Total PCB Aroclors (ND = 0) (OC normalized), within TOC of 0.5-3.5%	mg/kg-OC	12		*13.6 UA*	*25.3 UA*	***25.7***	***74.2***	***110***	**17.1**	***5.66***	***6.22***
Polychlorinated Biphenyl (PCB) Congeners											
Total PCB Congeners (ND = 0)	mg/kg	0.002		--	--	--	--	--	--	--	--
Polychlorinated Biphenyl (PCB) Congeners - OC Normalized											
Total PCB Congeners (ND = 0) (OC normalized), within TOC of 0.5-3.5%	mg/kg-OC	12		--	--	--	--	--	--	--	--
Dioxins/Furans											
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	2E-06		--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)											
2-Methylnaphthalene	mg/kg	0.67		--	--	--	--	--	--	--	--
Acenaphthene	mg/kg	0.5		--	--	--	--	--	--	--	--
Anthracene	mg/kg	0.96		--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene	mg/kg	0.67		--	--	--	--	--	--	--	--
Fluoranthene	mg/kg	1.7		--	--	--	--	--	--	--	--
Fluorene	mg/kg	0.54		--	--	--	--	--	--	--	--
Naphthalene	mg/kg	2.1		--	--	--	--	--	--	--	--
Phenanthrene	mg/kg	1.5		--	--	--	--	--	--	--	--
Pyrene	mg/kg	2.6		--	--	--	--	--	--	--	--
Benz(a)anthracene	mg/kg	1.3		--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	1.6		--	--	--	--	--	--	--	--
Chrysene	mg/kg	1.4		--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	0.23		--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	0.6		--	--	--	--	--	--	--	--
Total Benzofluoranthenes	mg/kg	3.2		--	--	--	--	--	--	--	--
Total HPAHs (ND = 1/2 RDL)	mg/kg	12		--	--	--	--	--	--	--	--
Total LPAHs (ND = 1/2 RDL)	mg/kg	5.2		--	--	--	--	--	--	--	--
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	0.59		--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs) - OC Normalized											
2-Methylnaphthalene (OC normalized)	mg/kg-OC	38		--	--	--	--	--	--	--	--
Acenaphthene (OC normalized)	mg/kg-OC	16		--	--	--	--	--	--	--	--
Anthracene (OC normalized)	mg/kg-OC	220		--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (OC normalized)	mg/kg-OC	31		--	--	--	--	--	--	--	--
Fluoranthene (OC normalized)	mg/kg-OC	160		--	--	--	--	--	--	--	--
Fluorene (OC normalized)	mg/kg-OC	23		--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene (OC normalized)	mg/kg-OC	34		--	--	--	--	--	--	--	--
Naphthalene (OC normalized)	mg/kg-OC	99		--	--	--	--	--	--	--	--
Phenanthrene (OC normalized)	mg/kg-OC	100		--	--	--	--	--	--	--	--
Pyrene (OC normalized)	mg/kg-OC	1000		--	--	--	--	--	--	--	--
Benz(a)anthracene (OC normalized)	mg/kg-OC	110		--	--	--	--	--	--	--	--
Benzo(a)pyrene (OC normalized)	mg/kg-OC	99		--	--	--	--	--	--	--	--
Chrysene (OC normalized)	mg/kg-OC	110		--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (OC normalized)	mg/kg-OC	12		--	--	--	--	--	--	--	--
Total Benzofluoranthenes (OC normalized)	mg/kg-OC	230		--	--	--	--	--	--	--	--
Total HPAHs (ND = 1/2 RDL) (OC normalized)	mg/kg-OC	960		--	--	--	--	--	--	--	--
Total LPAHs (ND = 1/2 RDL) (OC normalized)	mg/kg-OC	370		--	--	--	--	--	--	--	--
Other Semivolatile Organic Compounds (SVOCs)											
2,4-Dimethylphenol	mg/kg	0.029		--	--	--	--	--	--	--	--
4-Methylphenol	mg/kg	0.67		--	--	--	--	--	--	--	--
Benzoic Acid	mg/kg	0.65		--	--	--	--	--	--	--	--
Benzyl Alcohol	mg/kg	0.057		--	--	--	--	--	--	--	--
Benzyl butyl phthalate	mg/kg	0.063		--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate	mg/kg	1.3		--	--	--	--	--	--	--	--
Dibenzofuran	mg/kg	0.54		--	--	--	--	--	--	--	--
Dimethyl phthalate	mg/kg	0.071		--	--	--	--	--	--	--	--
Hexachlorobenzene	mg/kg	0.022		--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	mg/kg	0.028		--	--	--	--	--	--	--	--
Pentachlorophenol	mg/kg	0.36		--	--	--	--	--	--	--	--
Phenol	mg/kg	0.42		--	--	--	--	--	--	--	--
Other Semivolatile Organic Compounds (SVOCs) - OC Normalized											
Benzyl butyl phthalate (OC normalized)	mg/kg-OC	4.9		--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate (OC normalized)	mg/kg-OC	47		--	--	--	--	--	--	--	--
Dibenzofuran (OC normalized)	mg/kg-OC	15		--	--	--	--	--	--	--	--
Dimethyl phthalate (OC normalized)	mg/kg-OC	53		--	--	--	--	--	--	--	--
Hexachlorobenzene (OC normalized)	mg/kg-OC	0.38		--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine (OC normalized)	mg/kg-OC	11		--	--	--	--	--	--	--	--
Volatile Organic Compounds (VOCs)											
1,2,4-Trichlorobenzene	mg/kg	0.031		--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	0.035		--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	0.11		--	--	--	--	--	--	--	--
Volatile Organic Compounds (VOCs) - OC Normalized											
1,2,4-Trichlorobenzene (OC normalized)	mg/kg-OC	0.81		--	--	--	--	--	--	--	--
1,2-Dichlorobenzene (OC normalized)	mg/kg-OC	2.3		--	--	--	--	--	--	--	--
1,4-Dichlorobenzene (OC normalized)	mg/kg-OC	3.1		--	--	--	--	--	--	--	--
Conventionals											
Total Organic Carbon	%			***0.14***	***0.079***	***2.1***	***1.9***	***2***	**2.22**	***2.51***	***2.41***

Table H.3.B. Subsurface Sediment Analytical Data - Full Dataset - LDW COCs

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Gray - Sample not included as part of the refined dataset.
Pink Shaded - Outside accepted Total organic carbon (TOC) range.
Green Shaded - Sample TOC outside range for associated screening level (SL).
Light Blue Shaded - Nondetected result (reporting limit) exceeded Initial SL.
Purple Shaded - Detected result exceeded Initial SL.

			Location	T117-SE-COMP1-SC	T117-SE-COMP2and3-SC	T117-SE-COMP2and3-SC	T117-SE-COMP4-SC
			Date	09/16/04	09/16/04	09/16/04	09/16/04
			Sample ID	T117-SC-COMP1	T117-SC-COMP2	T117-SC-COMP3	T117-SC-COMP4
			Depth	0 - 100 cm	61 - 122 cm	0 - 61 cm	0 - 61 cm
Analyte	**Unit**	**Initial SL**					
Metals							
Arsenic	mg/kg	7		***9.8***	***8.9***	***9.3***	--
Cadmium	mg/kg	5.1		***0.26***	***0.46***	***0.3***	--
Chromium	mg/kg	260		***30***	***29.9***	***30***	--
Copper	mg/kg	390		***51.3***	***55.3***	***53.3***	--
Lead	mg/kg	450		***21***	***32***	***22***	--
Mercury	mg/kg	0.41		*0.1 U*	***0.11***	***0.14***	--
Silver	mg/kg	6.1		***0.08 J***	***0.29***	***0.1***	--
Zinc	mg/kg	410		***99***	***112***	***100***	--
Polychlorinated Biphenyl (PCB) Aroclors							
Total PCB Aroclors (ND = 0)	mg/kg	0.002		***0.031***	***0.138***	***0.98***	***0.27***
Polychlorinated Biphenyl (PCB) Aroclors - OC Normalized							
Total PCB Aroclors (ND = 0) (OC normalized), within TOC of 0.5-3.5%	mg/kg-OC	12		***1.4***	***6.54***	***42.4***	***11***
Polychlorinated Biphenyl (PCB) Congeners							
Total PCB Congeners (ND = 0)	mg/kg	0.002		--	**--**	**--**	**--**
Polychlorinated Biphenyl (PCB) Congeners - OC Normalized							
Total PCB Congeners (ND = 0) (OC normalized), within TOC of 0.5-3.5%	mg/kg-OC	12		--	**--**	**--**	**--**
Dioxins/Furans							
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	2E-06		--	**--**	**--**	**--**
Polycyclic Aromatic Hydrocarbons (PAHs)							
2-Methylnaphthalene	mg/kg	0.67		*0.02 U*	*0.035 U*	*0.019 U*	--
Acenaphthene	mg/kg	0.5		*0.02 U*	*0.035 U*	*0.019 U*	--
Anthracene	mg/kg	0.96		***0.036***	*0.035 U*	*0.019 U*	--
Benzo(g,h,i)perylene	mg/kg	0.67		***0.071***	***0.054***	***0.015 J***	--
Fluoranthene	mg/kg	1.7		***0.32***	***0.15***	***0.052***	--
Fluorene	mg/kg	0.54		*0.02 U*	*0.035 U*	*0.019 U*	--
Naphthalene	mg/kg	2.1		*0.02 U*	*0.035 U*	*0.019 U*	--
Phenanthrene	mg/kg	1.5		***0.11***	***0.043***	***0.029***	--
Pyrene	mg/kg	2.6		***0.3***	***0.14***	***0.052***	--
Benz(a)anthracene	mg/kg	1.3		***0.14***	***0.068***	***0.036***	--
Benzo(a)pyrene	mg/kg	1.6		***0.14***	***0.093***	***0.027***	--
Chrysene	mg/kg	1.4		***0.21***	***0.088***	***0.08***	--
Dibenzo(a,h)anthracene	mg/kg	0.23		***0.028***	*0.035 U*	*0.019 U*	--
Indeno(1,2,3-cd)pyrene	mg/kg	0.6		***0.089***	***0.042***	***0.012 J***	--
Total Benzofluoranthenes	mg/kg	3.2		--	--	--	--
Total HPAHs (ND = 1/2 RDL)	mg/kg	12		***1.68***	***0.812***	***0.336 J***	--
Total LPAHs (ND = 1/2 RDL)	mg/kg	5.2		***0.186***	***0.131***	***0.0765***	--
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	0.59		***0.206***	***0.123***	***0.0388 J***	--
Polycyclic Aromatic Hydrocarbons (PAHs) - OC Normalized							
2-Methylnaphthalene (OC normalized)	mg/kg-OC	38		*0.901 U*	*1.66 U*	*0.823 U*	--
Acenaphthene (OC normalized)	mg/kg-OC	16		*0.901 U*	*1.66 U*	*0.823 U*	--
Anthracene (OC normalized)	mg/kg-OC	220		***1.62***	*1.66 U*	*0.823 U*	--
Benzo(g,h,i)perylene (OC normalized)	mg/kg-OC	31		***3.2***	***2.56***	***0.649 J***	--
Fluoranthene (OC normalized)	mg/kg-OC	160		***14.4***	***7.11***	***2.25***	--
Fluorene (OC normalized)	mg/kg-OC	23		*0.901 U*	*1.66 U*	*0.823 U*	--
Indeno(1,2,3-cd)pyrene (OC normalized)	mg/kg-OC	34		***4.01***	***1.99***	***0.519 J***	--
Naphthalene (OC normalized)	mg/kg-OC	99		*0.901 U*	*1.66 U*	*0.823 U*	--
Phenanthrene (OC normalized)	mg/kg-OC	100		***4.95***	***2.04***	***1.26***	--
Pyrene (OC normalized)	mg/kg-OC	1000		***13.5***	***6.64***	***2.25***	--
Benz(a)anthracene (OC normalized)	mg/kg-OC	110		***6.31***	***3.22***	***1.56***	--
Benzo(a)pyrene (OC normalized)	mg/kg-OC	99		***6.31***	***4.41***	***1.17***	--
Chrysene (OC normalized)	mg/kg-OC	110		***9.46***	***4.17***	***3.46***	--
Dibenzo(a,h)anthracene (OC normalized)	mg/kg-OC	12		***1.26***	*1.66 U*	*0.823 U*	--
Total Benzofluoranthenes (OC normalized)	mg/kg-OC	230		--	--	--	--
Total HPAHs (ND = 1/2 RDL) (OC normalized)	mg/kg-OC	960		***75.7***	***38.5***	***14.5 J***	--
Total LPAHs (ND = 1/2 RDL) (OC normalized)	mg/kg-OC	370		***8.38***	***6.21***	***3.31***	--
Other Semivolatile Organic Compounds (SVOCs)							
2,4-Dimethylphenol	mg/kg	0.029		*0.02 U*	*0.025 U*	*0.019 U*	**--**
4-Methylphenol	mg/kg	0.67		*0.02 U*	*0.035 UJ*	*0.019 UJ*	**--**
Benzoic Acid	mg/kg	0.65		*0.2 U*	*0.35 U*	*0.19 U*	**--**
Benzyl Alcohol	mg/kg	0.057		*0.02 U*	*0.035 UJ*	*0.019 UJ*	**--**
Benzyl butyl phthalate	mg/kg	0.063		***0.03***	*0.035 U*	*0.019 U*	**--**
Bis(2-ethylhexyl) phthalate	mg/kg	1.3		***0.27***	***0.13***	***0.049***	**--**
Dibenzofuran	mg/kg	0.54		*0.02 U*	*0.035 U*	*0.019 U*	**--**
Dimethyl phthalate	mg/kg	0.071		*0.02 U*	*0.035 U*	*0.019 U*	**--**
Hexachlorobenzene	mg/kg	0.022		--	*0.00099 U*	*0.00098 U*	**--**
N-Nitrosodiphenylamine	mg/kg	0.028		*0.02 U*	*0.025 U*	*0.019 U*	**--**
Pentachlorophenol	mg/kg	0.36		*0.099 U*	*0.18 U*	*0.096 U*	**--**
Phenol	mg/kg	0.42		*0.02 U*	*0.035 U*	***0.12***	**--**
Other Semivolatile Organic Compounds (SVOCs) - OC Normalized							
Benzyl butyl phthalate (OC normalized)	mg/kg-OC	4.9		***1.35***	*1.66 U*	*0.823 U*	**--**
Bis(2-ethylhexyl) phthalate (OC normalized)	mg/kg-OC	47		***12.2***	***6.16***	***2.12***	**--**
Dibenzofuran (OC normalized)	mg/kg-OC	15		*0.901 U*	*1.66 U*	*0.823 U*	**--**
Dimethyl phthalate (OC normalized)	mg/kg-OC	53		*0.901 U*	*1.66 U*	*0.823 U*	**--**
Hexachlorobenzene (OC normalized)	mg/kg-OC	0.38		--	*0.0469 U*	*0.0424 U*	**--**
N-Nitrosodiphenylamine (OC normalized)	mg/kg-OC	11		*0.901 U*	*1.18 U*	*0.823 U*	**--**
Volatile Organic Compounds (VOCs)							
1,2,4-Trichlorobenzene	mg/kg	0.031		*0.02 U*	*0.025 U*	*0.019 U*	--
1,2-Dichlorobenzene	mg/kg	0.035		*0.02 U*	*0.035 U*	*0.019 U*	--
1,4-Dichlorobenzene	mg/kg	0.11		*0.02 U*	*0.035 U*	*0.019 U*	--
Volatile Organic Compounds (VOCs) - OC Normalized							
1,2,4-Trichlorobenzene (OC normalized)	mg/kg-OC	0.81		*0.901 U*	*1.18 U*	*0.823 U*	--
1,2-Dichlorobenzene (OC normalized)	mg/kg-OC	2.3		*0.901 U*	*1.66 U*	*0.823 U*	--
1,4-Dichlorobenzene (OC normalized)	mg/kg-OC	3.1		*0.901 U*	*1.66 U*	*0.823 U*	--
Conventionals							
Total Organic Carbon	%			***2.22***	***2.11***	***2.31***	***2.45***

Table H.3.B. Subsurface Sediment Analytical Data - LDW COCs

South Park Marina Site, Seattle, Washington

Notes:

Initial SL = Initial screening level, refer to Table H.2.A for basis.

cm - centimeters

mg/kg - milligrams per kilogram, dry weight

mg/kg-OC - milligrams per kilogram, normalized for organic carbon content (OC normalized)

% - percent

ND = 1/2 RDL - Calculated using one-half the reporting limit for nondetected components.

ND = 0 - Calculated using zero for nondetected components.

TEQ - toxic equivalency

LPAHs (low molecular weight polycyclic aromatic hydrocarbons): naphthalene, acenaphthylene, acenaphethene, fluorene, phenanthrene, and anthracene.

HPAHs (high molecular weight polycyclic aromatic hydrocarbons): fluoranthene, pyrene, benz(a)anthracene, chrysene, total benzofluoranthenes, benzo(a)pyrene, indeno(1,2,3,-c,d)pyrene, dibenzo(a,h)anthracene, and benzo(g,h,i)perylene.

cPAHs (carcinogenic polycyclic aromatic hydrocarbons): benzo(a)pyrene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene.

Gray Shaded Sample Locations and italicized analytical results - Sample is not included as part of the refined dataset for representative conditions due to age of the sample, removal via dredging, and/or replacement by a more recent collocated sample.

Pink Shaded - Total organic carbon (TOC) is outside the accepted range of 0.5 to 3.5%.

Green Shaded - Sample organic carbon content is outside the range for which the associated dry weight or OC-normalized screening level applies, and is therefore not compared to the screening level.

Bold - detected

Purple Shaded - Detected result exceeded Initial SL**.**

Light Blue Shaded - Nondetected result (reporting limit) exceeded Initial SL.

U - Analyte not detected at or above reporting limit shown.

J - Result value estimated.

UJ - Analyte not detected and the reporting limit is an estimate.

A - One or more of the nine common Aroclor groups (1016, 1221, 1232, 1242, 1248, 1254, 1260, 1262, and 1268) were not reported, and the Total PCB Aroclors (ND = 0) sum assumes the missing components were non-detect.

S - Estimated for other reason.

Table H.3.C. Surface Sediment Analytical Data - Full Dataset - Non-LDW COCs

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Gray - Sample not included as part of the refined dataset.
Pink Shaded - Outside accepted Total organic carbon (TOC) range.
Green Shaded - Sample TOC outside range for associated screening level (SL).
Light Blue Shaded - Nondetected result (reporting limit) exceeded Initial SL.
Purple Shaded - Detected result exceeded Initial SL.

			Location	DR205	DR227	DR228	DR234	LDW20-SS151	LDW20-SS154	LDW20-SS155	LDW20-SS156	LDW20-SS158	LDW20-SS159	LDW20-SS160	LDW20-SS162
			Date	08/27/1998	08/27/1998	09/01/1998	08/19/1998	06/12/2020	06/05/2020	06/12/2020	06/12/2020	06/05/2020	06/05/2020	06/16/2020	06/12/2020
			Sample ID	SD-205-0000	SD-227-0000	SD-228-0000	SD-234-0000	LDW20-SS151	LDW20-SS154	LDW20-SS155	LDW20-SS156	LDW20-SS158	LDW20-SS159	LDW20-SS160	LDW20-SS162
			Depth	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm
Analyte	**Unit**	**Initial SL**													
Metals															
Aluminum	mg/kg			***25000***	***22000***	***24000***	***17000***	--	--	--	--	--	--	--	--
Antimony	mg/kg			*10 UJ*	*10 UJ*	*10 UJ*	*10 UJ*	--	--	--	--	--	--	--	--
Barium	mg/kg			***84***	***70***	***82***	***52***	--	--	--	--	--	--	--	--
Beryllium	mg/kg			***0.46***	***0.43***	***0.42***	***0.35***	--	--	--	--	--	--	--	--
Calcium	mg/kg			***6600***	***6000***	***7000***	***4900***	--	--	--	--	--	--	--	--
Cobalt	mg/kg			***11***	***9***	***10***	***8***	--	--	--	--	--	--	--	--
Iron	mg/kg			***32000 J***	***28000 J***	***32000 J***	***22000 J***	--	--	--	--	--	--	--	--
Magnesium	mg/kg			***8400***	***7900***	***8600***	***6500***	--	--	--	--	--	--	--	--
Manganese	mg/kg			***350***	***310***	***330***	***230***	--	--	--	--	--	--	--	--
Molybdenum	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
Nickel	mg/kg			***21***	***20***	***23 J***	***16***	--	--	--	--	--	--	--	--
Potassium	mg/kg			***2800***	***2600***	***2900***	***2100***	--	--	--	--	--	--	--	--
Selenium	mg/kg			***16 J***	***16 J***	***25 J***	***5 J***	--	--	--	--	--	--	--	--
Sodium	mg/kg			***12000***	***12000***	***14000***	***9300***	--	--	--	--	--	--	--	--
Thallium	mg/kg			***0.08***	***0.07***	***0.12 J***	***0.06 J***	--	--	--	--	--	--	--	--
Tin	mg/kg			*4 UJ*	*4 UJ*	*4 UJ*	*2 UJ*	--	--	--	--	--	--	--	--
Vanadium	mg/kg			***76***	***69***	***74***	***50***	--	--	--	--	--	--	--	--
Butyl Tins															
Monobutyltin	mg/kg			--	--	***0.008 J***	*0.01 UJ*	--	--	--	--	--	--	--	--
Dibutyltin	mg/kg			--	--	*0.005 UJ*	*0.01 UJ*	--	--	--	--	--	--	--	--
Tributyltin	mg/kg	0.0021		--	--	***0.019***	***0.014***	--	--	--	--	--	--	--	--
Tributyltin Ion	mg/kg	0.0021		--	--	--	--	--	--	--	--	--	--	--	--
Tetrabutyltin	mg/kg			--	--	*0.005 UJ*	*0.01 U*	--	--	--	--	--	--	--	--
Butyl Tins - OC Normalized															
Monobutyltin (OC normalized)	mg/kg-OC			--	--	***0.32 J***	*0.556 UJ*	--	--	--	--	--	--	--	--
Dibutyltin (OC normalized)	mg/kg-OC			--	--	*0.2 UJ*	*0.556 UJ*	--	--	--	--	--	--	--	--
Tributyltin (OC normalized)	mg/kg-OC			--	--	***0.76***	***0.778***	--	--	--	--	--	--	--	--
Tributyltin Ion (OC normalized)	mg/kg-OC			--	--	--	--	--	--	--	--	--	--	--	--
Tetrabutyltin (OC normalized)	mg/kg-OC			--	--	*0.2 UJ*	*0.556 U*	--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)															
1-Methylnaphthalene	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene	mg/kg	1.3		*0.02 U*	*0.02 U*	*0.02 U*	*0.02 U*	0.0199 U	0.0199 U	0.0195 U	0.0197 U	0.02 U	0.02 U	0.02 J	0.0196 U
Polycyclic Aromatic Hydrocarbons (PAHs) - OC Normalized															
Acenaphthylene (OC normalized)	mg/kg-OC	66		*0.909 U*	*1 U*	*0.8 U*	*1.11 U*	0.632 U	0.573 U	1.71 U	2.63 U	0.702 U	1.57 U	2.17 J	1.8 U
Other Semivolatile Organic Compounds (SVOCs)															
2,4,5-Trichlorophenol	mg/kg			*0.2 U*	*0.2 U*	*0.2 U*	*0.2 U*	--	--	--	--	--	--	--	--
2,4,6-Trichlorophenol	mg/kg			*0.2 U*	*0.2 U*	*0.2 U*	*0.2 U*	--	--	--	--	--	--	--	--
2,4-Dichlorophenol	mg/kg			*0.06 U*	*0.06 U*	*0.06 U*	*0.06 U*	--	--	--	--	--	--	--	--
2,4-Dinitrophenol	mg/kg			*0.2 U*	*0.2 U*	*0.2 U*	*0.2 UJ*	--	--	--	--	--	--	--	--
2,4-Dinitrotoluene	mg/kg			*0.2 U*	*0.2 U*	*0.2 U*	*0.2 U*	--	--	--	--	--	--	--	--
2,6-Dinitrotoluene	mg/kg			*0.2 U*	*0.2 U*	*0.2 U*	*0.2 U*	--	--	--	--	--	--	--	--
2-Chloronaphthalene	mg/kg			*0.02 U*	*0.02 U*	*0.02 U*	*0.02 U*	--	--	--	--	--	--	--	--
2-Chlorophenol	mg/kg			*0.02 U*	*0.02 U*	*0.02 U*	*0.02 U*	--	--	--	--	--	--	--	--
2-Methylphenol	mg/kg	0.069		*0.02 U*	*0.02 U*	*0.02 U*	*0.02 U*	--	--	--	--	--	--	--	--
2-Nitroaniline	mg/kg			*0.1 U*	*0.1 U*	*0.1 U*	*0.1 U*	--	--	--	--	--	--	--	--
2-Nitrophenol	mg/kg			*0.1 U*	*0.1 U*	*0.1 U*	*0.1 U*	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	mg/kg			*0.2 U*	*0.2 U*	*0.2 U*	*0.2 U*	--	--	--	--	--	--	--	--
3-Nitroaniline	mg/kg			*0.2 U*	*0.2 U*	*0.2 U*	*0.2 U*	--	--	--	--	--	--	--	--
4,6-Dinitro-2-methylphenol	mg/kg			*0.2 U*	*0.2 U*	*0.2 U*	*0.2 UJ*	--	--	--	--	--	--	--	--
4-Bromophenyl phenyl ether	mg/kg			*0.04 U*	*0.04 U*	*0.04 U*	*0.04 U*	--	--	--	--	--	--	--	--
4-Chloro-3-methylphenol	mg/kg			*0.04 U*	*0.04 U*	*0.04 U*	*0.04 U*	--	--	--	--	--	--	--	--
4-Chloroaniline	mg/kg			*0.06 U*	*0.06 U*	*0.06 U*	*0.06 U*	--	--	--	--	--	--	--	--
4-Chlorophenyl phenyl ether	mg/kg			*0.02 U*	*0.02 U*	*0.02 U*	*0.02 U*	--	--	--	--	--	--	--	--
4-Nitroaniline	mg/kg			*0.1 U*	*0.1 U*	*0.1 U*	*0.1 U*	--	--	--	--	--	--	--	--
4-Nitrophenol	mg/kg			*0.1 U*	*0.1 U*	*0.1 U*	*0.1 U*	--	--	--	--	--	--	--	--
Aniline	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
Bis(2-chloro-1-methylethyl) ether	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	mg/kg			*0.04 U*	*0.04 U*	*0.04 U*	*0.04 U*	--	--	--	--	--	--	--	--
Bis(2-chloroethyl) ether	mg/kg			*0.04 U*	*0.04 U*	*0.04 U*	*0.04 U*	--	--	--	--	--	--	--	--
bis(2-Chloroisopropyl)ether	mg/kg			*0.04 U*	*0.04 U*	*0.04 U*	*0.04 U*	--	--	--	--	--	--	--	--
Carbazole	mg/kg			*0.02 U*	*0.02 U*	***0.02***	*0.02 U*	--	--	--	--	--	--	--	--
Dibenzofuran	mg/kg	0.54		*0.02 U*	*0.02 U*	***0.03***	*0.02 U*	**0.0051 J**	0.0199 U	**0.0056 J**	**0.0046 J**	0.02 U	0.02 U	**0.0058 J**	0.0196 U
Diethyl phthalate	mg/kg	0.2		*0.02 U*	*0.02 U*	*0.02 U*	*0.02 U*	--	--	--	--	--	--	--	--
Di-n-butyl phthalate	mg/kg	1.4		*0.02 U*	*0.02 U*	*0.02 U*	*0.02 U*	--	--	--	--	--	--	--	--
Di-n-octyl phthalate	mg/kg	6.2		*0.02 U*	*0.02 U*	*0.02 U*	*0.02 U*	--	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	0.011		*0.02 U*	*0.02 U*	*0.02 U*	*0.02 U*	--	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	mg/kg			*0.1 UJ*	*0.1 UJ*	*0.1 UJ*	*0.1 U*	--	--	--	--	--	--	--	--
Hexachloroethane	mg/kg			*0.02 U*	*0.02 U*	*0.02 U*	*0.02 U*	--	--	--	--	--	--	--	--
Isophorone	mg/kg			*0.02 U*	*0.02 U*	*0.02 U*	*0.02 U*	--	--	--	--	--	--	--	--
Nitrobenzene	mg/kg			*0.02 U*	*0.02 U*	*0.02 U*	*0.02 U*	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
N-Nitroso-di-n-propylamine	mg/kg			*0.04 U*	*0.04 U*	*0.04 U*	*0.04 U*	--	--	--	--	--	--	--	--
Other Semivolatile Organic Compounds (SVOCs) - OC Normalized															
Dibenzofuran (OC normalized)	mg/kg-OC	15		*0.91 U*	*1 U*	***1.2***	*1.1 U*	**0.162 J**	0.57 U	**0.491 J**	**0.613 J**	0.70 U	1.57 U	**0.63 J**	1.8 U
Diethyl phthalate (OC normalized)	mg/kg-OC	61		*0.909 U*	*1 U*	*0.8 U*	*1.11 U*	--	--	--	--	--	--	--	--
Di-n-butyl phthalate (OC normalized)	mg/kg-OC	220		*0.909 U*	*1 U*	*0.8 U*	*1.11 U*	--	--	--	--	--	--	--	--
Di-n-octyl phthalate (OC normalized)	mg/kg-OC	58		*0.909 U*	*1 U*	*0.8 U*	*1.11 U*	--	--	--	--	--	--	--	--
Hexachlorobutadiene (OC normalized)	mg/kg-OC	3.9		*0.909 U*	*1 U*	*0.8 U*	*1.11 U*	--	--	--	--	--	--	--	--
Volatile Organic Compounds (VOCs)															
1,3-Dichlorobenzene	mg/kg			*0.02 U*	*0.02 U*	*0.02 U*	*0.02 U*	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
Total Xylenes	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
Pesticides & Herbicides															
2,4'-DDD	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
2,4'-DDE	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
2,4'-DDT	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
4,4'-DDD	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
4,4'-DDE	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
4,4'-DDT	mg/kg	0.0001		--	--	--	--	--	--	--	--	--	--	--	--
Aldrin	mg/kg	0.0001		--	--	--	--	--	--	--	--	--	--	--	--
Alpha-BHC	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
Beta-BHC	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
Chlordane	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
cis-Chlordane	mg/kg	0.0001		--	--	--	--	--	--	--	--	--	--	--	--
cis-Nonachlor	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
Delta-BHC	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
Dieldrin	mg/kg	0.0001		--	--	--	--	--	--	--	--	--	--	--	--
Endosulfan I	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
Endosulfan II	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
Endosulfan Sulfate	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
Endrin	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
Endrin Aldehyde	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
Endrin ketone	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
Heptachlor	mg/kg	0.0001		--	--	--	--	--	--	--	--	--	--	--	--
Heptachlor Epoxide	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
Lindane	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
Methoxychlor	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
Mirex	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
Oxychlordane	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
Toxaphene	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
trans-Chlordane	mg/kg	0.0001		--	--	--	--	--	--	--	--	--	--	--	--
trans-Nonachlor	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
Conventionals															
Total Organic Carbon	%			***2.2***	***2***	***2.5***	***1.8***	**3.15**	**3.47**	**1.14**	**0.75**	**2.85**	**1.27**	**0.92**	**1.09**

Table H.3.C. Surface Sediment Analytical Data - Full Dataset - Non-LDW COCs

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Gray - Sample not included as part of the refined dataset.
Pink Shaded - Outside accepted Total organic carbon (TOC) range.
Green Shaded - Sample TOC outside range for associated screening level (SL).
Light Blue Shaded - Nondetected result (reporting limit) exceeded Initial SL.
Purple Shaded - Detected result exceeded Initial SL.

			Location	LDW20-SS166	LDW20-SS167	LDW20-SS168	LDW20-SS169	LDW-SS2214-A	LDW-SS2214-D	*LDW-SS2214-U*	PERIM-5-POST	*PERIM-5-PRE*	PERIM-6-POST	*PERIM-6-PRE*	*S1*
			Date	06/12/2020	06/05/2020	06/05/2020	06/11/2020	03/07/2011	03/07/2011	*03/07/2011*	05/12/2014	*11/22/2013*	05/12/2014	*11/22/2013*	*10/05/1998*
			Sample ID	LDW20-SS166	LDW20-SS167	LDW20-SS168	LDW20-SS169	LDW-SS2214-A	LDW-SS2214-D	*LDW-SS2214-U*	SG-PERIM-5-POST	*SG-PERIM-5-PRE*	SG-PERIM-6-POST	*SG-PERIM-6-PRE*	*S1*
			Depth	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	*0 - 10 cm*	0 - 10 cm	*0 - 10 cm*	0 - 10 cm	*0 - 10 cm*	*0 - 10 cm*
Analyte	**Unit**	**Initial SL**													
Metals															
Aluminum	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
Antimony	mg/kg			--	--	--	--	--	--	--	--	--	--	--	*4 U*
Barium	mg/kg			--	--	--	--	--	--	--	**45.8 J**	--	**45.6 J**	--	--
Beryllium	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
Calcium	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
Cobalt	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
Iron	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
Magnesium	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
Manganese	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
Molybdenum	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
Nickel	mg/kg			--	--	--	--	--	--	--	--	--	--	--	***21.9***
Potassium	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
Selenium	mg/kg			--	--	--	--	--	--	--	1 J	--	1 UJ	--	--
Sodium	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
Thallium	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
Tin	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
Butyl Tins															
Monobutyltin	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
Dibutyltin	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
Tributyltin	mg/kg	0.0021		--	--	--	--	--	--	--	--	--	--	--	--
Tributyltin Ion	mg/kg	0.0021		--	--	--	--	--	--	--	--	--	--	--	--
Tetrabutyltin	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
Butyl Tins - OC Normalized															
Monobutyltin (OC normalized)	mg/kg-OC			--	--	--	--	--	--	--	--	--	--	--	--
Dibutyltin (OC normalized)	mg/kg-OC			--	--	--	--	--	--	--	--	--	--	--	--
Tributyltin (OC normalized)	mg/kg-OC			--	--	--	--	--	--	--	--	--	--	--	--
Tributyltin Ion (OC normalized)	mg/kg-OC			--	--	--	--	--	--	--	--	--	--	--	--
Tetrabutyltin (OC normalized)	mg/kg-OC			--	--	--	--	--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)															
1-Methylnaphthalene	mg/kg			--	--	--	--	0.019 U	0.019 U	*0.02 U*	0.005 U	*0.04 U*	**0.0079**	*0.04 U*	--
Acenaphthylene	mg/kg	1.3		0.0197 U	0.02 U	0.0199 U	0.0198 U	0.019 U	0.019 U	*0.02 U*	0.005 U	*0.04 U*	0.005 U	*0.04 U*	*0.02 U*
Polycyclic Aromatic Hydrocarbons (PAHs) - OC Normalized															
Acenaphthylene (OC normalized)	mg/kg-OC	66		2.29 U	0.699 U	0.734 U	0.72 U	0.704 U	0.534 U	*0.743 U*	0.362 U	*1.74 U*	0.413 U	*1.79 U*	*1.05 SU*
Other Semivolatile Organic Compounds (SVOCs)															
2,4,5-Trichlorophenol	mg/kg			--	--	--	--	0.095 U	0.096 U	*0.099 U*	0.01 U	*0.0096 U*	0.01 U	*0.0096 U*	--
2,4,6-Trichlorophenol	mg/kg			--	--	--	--	0.095 U	0.096 U	*0.099 U*	0.01 U	*0.008 U*	0.01 U	*0.008 U*	--
2,4-Dichlorophenol	mg/kg			--	--	--	--	0.095 U	0.096 U	*0.099 U*	0.002 U	*0.0058 U*	0.002 U	*0.0058 U*	--
2,4-Dinitrophenol	mg/kg			--	--	--	--	--	0.2 UJ	*0.21 UJ*	0.02 U	*0.014 U*	0.02 U	*0.014 U*	--
2,4-Dinitrotoluene	mg/kg			--	--	--	--	0.095 U	0.096 U	*0.099 U*	0.01 U	*0.0016 J*	0.01 U	*0.0016 UJ*	--
2,6-Dinitrotoluene	mg/kg			--	--	--	--	0.095 U	0.096 U	*0.099 U*	0.01 U	*0.0019 U*	0.01 U	*0.0019 U*	--
2-Chloronaphthalene	mg/kg			--	--	--	--	0.019 U	0.019 U	*0.02 U*	0.002 U	*0.0014 J*	0.002 U	*0.0014 J*	--
2-Chlorophenol	mg/kg			--	--	--	--	0.019 U	0.019 U	*0.02 U*	0.002 U	*0.0062 U*	0.002 U	*0.0062 U*	--
2-Methylphenol	mg/kg	0.069		--	--	--	--	0.0048 U	0.0048 U	*0.005 U*	0.002 U	*0.0064 U*	0.002 U	*0.0064 U*	*0.02 U*
2-Nitroaniline	mg/kg			--	--	--	--	0.095 U	0.096 U	*0.099 U*	0.01 U	*0.0026 U*	0.01 U	*0.0026 U*	--
2-Nitrophenol	mg/kg			--	--	--	--	0.095 U	0.096 U	*0.099 U*	0.01 U	*0.0082 U*	0.01 U	*0.0082 U*	--
3,3'-Dichlorobenzidine	mg/kg			--	--	--	--	0.095 U	0.096 U	*0.099 U*	--	--	--	--	--
3-Nitroaniline	mg/kg			--	--	--	--	0.095 U	0.096 U	*0.099 U*	0.01 U	*0.017 U*	0.01 U	*0.017 U*	--
4,6-Dinitro-2-methylphenol	mg/kg			--	--	--	--	0.19 U	0.19 U	*0.2 U*	0.02 U	*0.011 U*	0.02 U	*0.011 U*	--
4-Bromophenyl phenyl ether	mg/kg			--	--	--	--	0.019 U	0.019 U	*0.02 U*	0.002 U	*0.0016 UJ*	0.002 U	*0.0016 UJ*	--
4-Chloro-3-methylphenol	mg/kg			--	--	--	--	0.095 U	0.096 U	*0.099 U*	0.01 U	*0.0044 U*	0.01 U	*0.0044 U*	--
4-Chloroaniline	mg/kg			--	--	--	--	0.095 U	0.096 U	*0.099 U*	0.02 U	--	0.02 U	--	--
4-Chlorophenyl phenyl ether	mg/kg			--	--	--	--	0.019 U	0.019 U	*0.02 U*	0.002 U	*0.0016 J*	0.002 U	*0.0016 UJ*	--
4-Nitroaniline	mg/kg			--	--	--	--	0.095 U	0.096 U	*0.099 U*	0.1 U	*0.018 J*	0.1 U	*0.018 UJ*	--
4-Nitrophenol	mg/kg			--	--	--	--	0.095 U	0.096 U	*0.099 U*	0.02 U	*0.018 U*	0.02 U	*0.018 U*	--
Aniline	mg/kg			--	--	--	--	0.12 U	0.12 U	*0.13 U*	--	--	--	--	--
Bis(2-chloro-1-methylethyl) ether	mg/kg			--	--	--	--	0.019 U	0.019 U	*0.02 U*	0.002 U	*0.0016 UJ*	0.002 U	*0.0016 J*	--
Bis(2-chloroethoxy)methane	mg/kg			--	--	--	--	0.019 U	0.019 U	*0.02 U*	0.002 U	*0.0014 J*	0.002 U	*0.0014 UJ*	--
Bis(2-chloroethyl) ether	mg/kg			--	--	--	--	0.019 U	0.019 U	*0.02 U*	0.002 U	*0.0016 J*	0.002 U	*0.0016 J*	--
bis(2-Chloroisopropyl)ether	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
Carbazole	mg/kg			--	--	--	--	**0.015 J**	**0.02**	***0.016 J***	**0.0043**	***0.01 J***	**0.0093**	***0.04 J***	--
Dibenzofuran	mg/kg	0.54		0.0197 U	**0.0137 J**	0.0199 U	**0.0084 J**	**0.015 J**	**0.014 J**	*0.02 U*	**0.0051**	***0.0089 J***	**0.0074**	***0.033 J***	*0.02 U*
Diethyl phthalate	mg/kg	0.2		--	--	--	--	0.019 U	0.019 U	*0.02 U*	0.01 U	*0.004 U*	0.01 U	***0.0044***	*0.02 U*
Di-n-butyl phthalate	mg/kg	1.4		--	--	--	--	**0.01 J**	0.019 U	*0.02 U*	0.01 U	*0.02 U*	0.01 U	*0.02 U*	*0.02 U*
Di-n-octyl phthalate	mg/kg	6.2		--	--	--	--	0.019 U	0.019 U	*0.02 U*	0.01 U	***0.0056 J***	0.01 U	***0.0095 J***	*0.02 U*
Hexachlorobutadiene	mg/kg	0.011		--	--	--	--	0.0048 U	0.0048 U	*0.005 U*	0.002 U	*0.002 U*	0.002 U	*0.002 U*	*0.02 U*
Hexachlorocyclopentadiene	mg/kg			--	--	--	--	0.095 U	0.096 U	*0.099 U*	0.002 U	*0.0022 U*	0.002 U	*0.0022 U*	--
Hexachloroethane	mg/kg			--	--	--	--	0.019 U	0.019 U	*0.02 U*	0.002 U	*0.0032 U*	0.002 U	*0.0032 U*	*0.02 U*
Isophorone	mg/kg			--	--	--	--	0.019 U	0.019 U	*0.02 U*	**0.0067**	*0.0011 UJ*	0.002 U	*0.0011 UJ*	--
Nitrobenzene	mg/kg			--	--	--	--	0.019 U	0.019 U	*0.02 U*	0.002 U	*0.0026 U*	0.002 U	*0.0026 U*	--
N-Nitrosodimethylamine	mg/kg			--	--	--	--	0.024 U	0.024 U	*0.025 U*	--	--	--	--	--
N-Nitroso-di-n-propylamine	mg/kg			--	--	--	--	0.0048 U	0.0048 U	*0.005 U*	0.002 U	*0.003 U*	0.002 U	*0.003 U*	--
Other Semivolatile Organic Compounds (SVOCs) - OC Normalized															
Dibenzofuran (OC normalized)	mg/kg-OC	15		2.29 U	**0.48 J**	0.73 U	**0.31 J**	**0.56 J**	0.39 J	*0.74 U*	**0.37**	***0.387 J***	**0.612**	***1.47 J***	*1 SU*
Diethyl phthalate (OC normalized)	mg/kg-OC	61		--	--	--	--	0.704 U	0.534 U	*0.743 U*	0.725 U	*0.174 U*	0.826 U	***0.196***	*1.05 SU*
Di-n-butyl phthalate (OC normalized)	mg/kg-OC	220		--	--	--	--	**0.37 J**	0.534 U	*0.743 U*	0.725 U	*0.87 U*	0.826 U	*0.893 U*	*1.05 SU*
Di-n-octyl phthalate (OC normalized)	mg/kg-OC	58		--	--	--	--	0.704 U	0.534 U	*0.743 U*	0.725 U	***0.243 J***	0.826 U	***0.424 J***	*1.05 SU*
Hexachlorobutadiene (OC normalized)	mg/kg-OC	3.9		--	--	--	--	0.178 U	0.135 U	*0.186 U*	0.145 U	*0.087 U*	0.165 U	*0.0893 U*	*1.05 SU*
Volatile Organic Compounds (VOCs)															
1,3-Dichlorobenzene	mg/kg			--	--	--	--	0.019 U	0.019 U	*0.02 U*	0.002 U	***0.0039***	0.002 U	***0.0028***	*0.0014 U*
Ethylbenzene	mg/kg			--	--	--	--	--	--	--	--	--	--	--	*0.0014 U*
Tetrachloroethene (PCE)	mg/kg			--	--	--	--	--	--	--	--	--	--	--	*0.0014 U*
Total Xylenes	mg/kg			--	--	--	--	--	--	--	--	--	--	--	*0.0043 U*
Trichloroethene (TCE)	mg/kg			--	--	--	--	--	--	--	--	--	--	--	*0.0014 U*
Pesticides & Herbicides															
2,4'-DDD	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
2,4'-DDE	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
2,4'-DDT	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
4,4'-DDD	mg/kg			--	--	--	--	--	--	--	--	--	--	--	*0.002 U*
4,4'-DDE	mg/kg			--	--	--	--	--	--	--	--	--	--	--	*0.002 U*
4,4'-DDT	mg/kg	0.0001		--	--	--	--	--	--	--	--	--	--	--	*0.002 U*
Aldrin	mg/kg	0.0001		--	--	--	--	--	--	--	--	--	--	--	*0.001 U*
Alpha-BHC	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
Beta-BHC	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
Chlordane	mg/kg			--	--	--	--	--	--	--	--	--	--	--	*0.0023 U*
cis-Chlordane	mg/kg	0.0001		--	--	--	--	--	--	--	--	--	--	--	--
cis-Nonachlor	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
Delta-BHC	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
Dieldrin	mg/kg	0.0001		--	--	--	--	--	--	--	--	--	--	--	*0.002 U*
Endosulfan I	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
Endosulfan II	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
Endosulfan Sulfate	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
Endrin	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
Endrin Aldehyde	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
Endrin ketone	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
Heptachlor	mg/kg	0.0001		--	--	--	--	--	--	--	--	--	--	--	*0.001 U*
Heptachlor Epoxide	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
Lindane	mg/kg			--	--	--	--	--	--	--	--	--	--	--	*0.001 U*
Methoxychlor	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
Mirex	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
Oxychlordane	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
Toxaphene	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
trans-Chlordane	mg/kg	0.0001		--	--	--	--	--	--	--	--	--	--	--	--
trans-Nonachlor	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
Conventionals															
Total Organic Carbon	%			**0.86**	**2.86**	**2.71**	**2.75**	**2.7**	**3.56**	***2.69***	**1.38**	***2.3***	**1.21**	***2.24***	--

Table H.3.C. Surface Sediment Analytical Data - Full Dataset - Non-LDW COCs

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Gray - Sample not included as part of the refined dataset.
Pink Shaded - Outside accepted Total organic carbon (TOC) range.
Green Shaded - Sample TOC outside range for associated screening level (SL).
Light Blue Shaded - Nondetected result (reporting limit) exceeded Initial SL.
Purple Shaded - Detected result exceeded Initial SL.

Location			SG-07-R2	SG-08-R2	SG-09-R2	*SPRK0101*	*SS107*	*SS108*	SS-130	*T117-98-SG*	*T117-99-SG*	*T117-SE-08-G*	*TRANS-A-SED*	*TRANS-B-SED*
Date			03/12/2014	03/12/2014	03/12/2014	*09/14/1991*	*03/14/2005 LDW-SS107-01*	*03/10/2005 LDW-SS108-01*	03/01/2018 LDW18-SS-130	*08/29/2008 T117-98-SG*	*08/29/2008 T117-99-SG*	*12/08/2003 T117-SE08-SG*	*03/12/2008 TRANS-A-SED*	*03/12/2008 TRANS-B-SED*
Sample ID			SG-07-R2	SG-08-R2	SG-09-R2	*C1*	*0 - 10 cm*	*0 - 10 cm*	0 - 10 cm	*0 - 6 cm*	*0 - 6 cm*	*0 - 10 cm*	*0 - 10 cm*	*0 - 10 cm*
Depth			0 - 10 cm	0 - 10 cm	0 - 10 cm	*0 - 10 cm*								
Analyte	**Unit**	**Initial SL**												
Metals														
Aluminum	mg/kg		--	--	--	--	--	--	--	--	--	--	--	--
Antimony	mg/kg		--	--	--	*0.47 U*	*0.4 U*	*0.5 UJ*	--	--	--	--	--	--
Barium	mg/kg		--	--	--	--	--	--	--	--	--	--	--	--
Beryllium	mg/kg		--	--	--	--	--	--	--	--	--	--	--	--
Calcium	mg/kg		--	--	--	--	--	--	--	--	--	--	--	--
Cobalt	mg/kg		--	--	--	--	***9.5***	***9.5***	--	--	--	--	--	--
Iron	mg/kg		--	--	--	--	--	--	--	--	--	--	--	--
Magnesium	mg/kg		--	--	--	--	--	--	--	--	--	--	--	--
Manganese	mg/kg		--	--	--	--	--	--	--	--	--	--	--	--
Molybdenum	mg/kg		--	--	--	--	***1.4***	***2***	--	--	--	--	--	--
Nickel	mg/kg		--	--	--	*47 U*	***31***	***21***	--	--	--	--	--	--
Potassium	mg/kg		--	--	--	--	--	--	--	--	--	--	--	--
Selenium	mg/kg		--	--	--	--	*9 U*	*10 U*	--	--	--	--	--	--
Sodium	mg/kg		--	--	--	--	--	--	--	--	--	--	--	--
Thallium	mg/kg		--	--	--	--	*0.4 U*	*0.5 U*	--	--	--	--	--	--
Tin	mg/kg		--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	mg/kg		--	--	--	--	***60.4***	***73.5***	--	--	--	--	--	--
Butyl Tins														
Monobutyltin	mg/kg		--	--	--	--	--	*0.004 UJ*	--	--	--	--	--	--
Dibutyltin	mg/kg		--	--	--	--	*0.0057 U*	*0.0057 U*	--	--	--	--	--	--
Tributyltin	mg/kg	0.0021	--	--	--	--	*0.0038 U*	***0.0087***	--	--	--	--	--	--
Tributyltin Ion	mg/kg	0.0021	--	--	--	--	--	--	--	--	--	*0.0056 U*	--	--
Tetrabutyltin	mg/kg		--	--	--	--	--	--	--	--	--	--	--	--
Butyl Tins - OC Normalized														
Monobutyltin (OC normalized)	mg/kg-OC		--	--	--	--	--	*0.145 UJ*	--	--	--	--	--	--
Dibutyltin (OC normalized)	mg/kg-OC		--	--	--	--	*0.335 U*	*0.207 U*	--	--	--	--	--	--
Tributyltin (OC normalized)	mg/kg-OC		--	--	--	--	*0.224 U*	***0.315***	--	--	--	--	--	--
Tributyltin Ion (OC normalized)	mg/kg-OC		--	--	--	--	--	--	--	--	--	*0.255 U*	--	--
Tetrabutyltin (OC normalized)	mg/kg-OC		--	--	--	--	--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)														
1-Methylnaphthalene	mg/kg		--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene	mg/kg	1.3	0.003 U	0.003 U	0.003 U	*0.064 U*	*0.02 U*	*0.059 U*	**0.008 J**	--	--	*0.02 U*	***0.013***	***0.011***
Polycyclic Aromatic Hydrocarbons (PAHs) - OC Normalized														
Acenaphthylene (OC normalized)	mg/kg-OC	66	6 U	0.14 U	0.467 U	*23.7 U*	*1.18 U*	*2.14 U*	**0.286 J**	--	--	*0.909 U*	***0.0092 S***	***0.0047 S***
Other Semivolatile Organic Compounds (SVOCs)														
2,4,5-Trichlorophenol	mg/kg		--	--	--	--	*0.099 U*	*0.29 U*	--	--	--	--	--	--
2,4,6-Trichlorophenol	mg/kg		--	--	--	--	*0.099 U*	*0.29 U*	--	--	--	--	--	--
2,4-Dichlorophenol	mg/kg		--	--	--	--	*0.099 U*	*0.29 U*	--	--	--	--	--	--
2,4-Dinitrophenol	mg/kg		--	--	--	--	*0.2 U*	*0.59 UJ*	--	--	--	--	--	--
2,4-Dinitrotoluene	mg/kg		--	--	--	--	*0.099 U*	*0.29 U*	--	--	--	--	--	--
2,6-Dinitrotoluene	mg/kg		--	--	--	--	*0.099 U*	*0.29 U*	--	--	--	--	--	--
2-Chloronaphthalene	mg/kg		--	--	--	--	*0.02 U*	*0.059 U*	--	--	--	--	--	--
2-Chlorophenol	mg/kg		--	--	--	--	*0.02 U*	*0.059 U*	--	--	--	--	--	--
2-Methylphenol	mg/kg	0.069	--	--	--	*0.02 U*	*0.0067 U*	*0.0065 U*	--	--	--	*0.02 U*	***0.0023***	*0.014 U*
2-Nitroaniline	mg/kg		--	--	--	--	*0.099 U*	*0.29 U*	--	--	--	--	--	--
2-Nitrophenol	mg/kg		--	--	--	--	*0.099 U*	*0.29 U*	--	--	--	--	--	--
3,3'-Dichlorobenzidine	mg/kg		--	--	--	--	*0.099 U*	*0.29 U*	--	--	--	--	--	--
3-Nitroaniline	mg/kg		--	--	--	--	*0.099 U*	*0.29 U*	--	--	--	--	--	--
4,6-Dinitro-2-methylphenol	mg/kg		--	--	--	--	*0.2 U*	*0.59 UJ*	--	--	--	--	--	--
4-Bromophenyl phenyl ether	mg/kg		--	--	--	--	*0.02 U*	*0.059 U*	--	--	--	--	--	--
4-Chloro-3-methylphenol	mg/kg		--	--	--	--	*0.099 U*	*0.29 U*	--	--	--	--	--	--
4-Chloroaniline	mg/kg		--	--	--	--	*0.099 U*	*0.29 U*	--	--	--	--	--	--
4-Chlorophenyl phenyl ether	mg/kg		--	--	--	--	*0.02 U*	*0.059 U*	--	--	--	--	--	--
4-Nitroaniline	mg/kg		--	--	--	--	*0.099 U*	*0.29 U*	--	--	--	--	--	--
4-Nitrophenol	mg/kg		--	--	--	--	*0.099 U*	*0.29 U*	--	--	--	--	--	--
Aniline	mg/kg		--	--	--	--	*0.02 U*	*0.059 U*	--	--	--	--	--	--
Bis(2-chloro-1-methylethyl) ether	mg/kg		--	--	--	--	--	--	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	mg/kg		--	--	--	--	*0.02 U*	*0.059 U*	--	--	--	--	--	--
Bis(2-chloroethyl) ether	mg/kg		--	--	--	--	*0.02 U*	*0.059 U*	--	--	--	--	--	--
bis(2-Chloroisopropyl)ether	mg/kg		--	--	--	--	*0.02 U*	*0.059 U*	--	--	--	--	--	--
Carbazole	mg/kg		--	--	--	--	*0.02 U*	*0.059 U*	--	--	--	--	--	--
Dibenzofuran	mg/kg	0.54	0.003 U	0.003 U	0.003 U	*0.054 U*	*0.02 U*	*0.059 U*	**0.0091 J**	--	--	*0.02 U*	--	--
Diethyl phthalate	mg/kg	0.2	--	--	--	*0.097 U*	*0.02 U*	***0.0098***	--	--	--	*0.02 U*	*0.0063 U*	*0.014 U*
Di-n-butyl phthalate	mg/kg	1.4	--	--	--	*1.4 U*	***0.025***	*0.059 U*	--	--	--	*0.67*	***0.021***	***0.039***
Di-n-octyl phthalate	mg/kg	6.2	--	--	--	*6.2 U*	*0.02 U*	*0.059 U*	--	--	--	*0.02 U*	*0.012 U*	*0.014 U*
Hexachlorobutadiene	mg/kg	0.011	--	--	--	*0.029 U*	*0.0067 U*	*0.00098 U*	--	--	--	*0.00097 U*	*0.012 U*	*0.014 U*
Hexachlorocyclopentadiene	mg/kg		--	--	--	--	*0.099 U*	*0.29 UJ*	--	--	--	--	--	--
Hexachloroethane	mg/kg		--	--	--	*1.4 U*	*0.02 U*	*0.059 U*	--	--	--	--	--	--
Isophorone	mg/kg		--	--	--	--	*0.02 U*	*0.059 U*	--	--	--	--	--	--
Nitrobenzene	mg/kg		--	--	--	--	*0.02 U*	*0.059 U*	--	--	--	--	--	--
N-Nitrosodimethylamine	mg/kg		--	--	--	--	*0.033 U*	*0.033 U*	--	--	--	--	--	--
N-Nitroso-di-n-propylamine	mg/kg		--	--	--	--	*0.033 U*	*0.033 U*	--	--	--	--	--	--
Other Semivolatile Organic Compounds (SVOCs) - OC Normalized														
Dibenzofuran (OC normalized)	mg/kg-OC	15	6 U	0.14 U	0.467 U	*20 U*	*1.18 U*	*2.1 U*	**0.33 J**	--	--	*0.909 U*	***0.25 S***	***0.22 S***
Diethyl phthalate (OC normalized)	mg/kg-OC	61	--	--	--	*35.9 U*	*1.18 U*	***0.355***	--	--	--	*0.909 U*	*0.332 SU*	*0.737 SU*
Di-n-butyl phthalate (OC normalized)	mg/kg-OC	220	--	--	--	*519 U*	***1.47***	*2.14 U*	--	--	--	*30.5*	***1.11 S***	***2.05 S***
Di-n-octyl phthalate (OC normalized)	mg/kg-OC	58	--	--	--	*2300 U*	*1.18 U*	*2.14 U*	--	--	--	*0.909 U*	*0.632 SU*	*0.737 SU*
Hexachlorobutadiene (OC normalized)	mg/kg-OC	3.9	--	--	--	*10.7 U*	*0.394 U*	*0.0355 U*	--	--	--	*0.0441 U*	*0.632 SU*	*0.737 SU*
Volatile Organic Compounds (VOCs)														
1,3-Dichlorobenzene	mg/kg		--	--	--	*0.17 U*	*0.02 U*	*0.059 U*	--	--	--	*0.0011 U*	--	--
Ethylbenzene	mg/kg		--	--	--	*0.01 U*	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	mg/kg		--	--	--	*0.01 U*	--	--	--	--	--	--	--	--
Total Xylenes	mg/kg		--	--	--	***0.014***	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	mg/kg		--	--	--	*0.01 U*	--	--	--	--	--	--	--	--
Pesticides & Herbicides														
2,4'-DDD	mg/kg		--	--	--	--	--	*0.002 U*	--	--	--	--	*0.078 J*	*0.013*
2,4'-DDE	mg/kg		--	--	--	--	--	*0.002 U*	--	--	--	--	*0.007 U*	*0.0021 U*
2,4'-DDT	mg/kg		--	--	--	--	--	*0.002 U*	--	--	--	--	*0.049 U*	*0.0082 U*
4,4'-DDD	mg/kg		--	--	--	*0.002 U*	--	*0.002 U*	--	--	--	--	***0.0016***	***0.0012***
4,4'-DDE	mg/kg		--	--	--	*0.002 U*	--	*0.002 U*	--	--	--	--	*0.0034 U*	*0.0014 U*
4,4'-DDT	mg/kg	0.0001	--	--	--	*0.002 U*	--	*0.014 U*	--	--	--	--	*0.16 U*	*0.051 U*
Aldrin	mg/kg	0.0001	--	--	--	*0.002 U*	--	*0.00098 U*	--	--	--	--	***0.046 J***	*0.0014 U*
Alpha-BHC	mg/kg		--	--	--	--	--	*0.00098 U*	--	--	--	--	--	--
Beta-BHC	mg/kg		--	--	--	--	--	*0.00098 U*	--	--	--	--	--	--
Chlordane	mg/kg		--	--	--	*0.002 U*	--	--	--	--	--	--	*0.012 U*	*0.034 U*
cis-Chlordane	mg/kg	0.0001	--	--	--	--	--	*0.00098 U*	--	--	--	--	--	--
cis-Nonachlor	mg/kg		--	--	--	--	--	*0.002 U*	--	--	--	--	--	--
Delta-BHC	mg/kg		--	--	--	--	--	*0.00098 U*	--	--	--	--	--	--
Dieldrin	mg/kg	0.0001	--	--	--	*0.002 U*	--	*0.0054 U*	--	*0.0076 U*	*0.0046 U*	--	*0.0018 U*	*0.0015 U*
Endosulfan I	mg/kg		--	--	--	--	--	*0.00098 U*	--	--	--	--	--	--
Endosulfan II	mg/kg		--	--	--	--	--	*0.002 U*	--	--	--	--	--	--
Endosulfan Sulfate	mg/kg		--	--	--	--	--	*0.002 U*	--	--	--	--	--	--
Endrin	mg/kg		--	--	--	--	--	*0.002 U*	--	--	--	--	--	--
Endrin Aldehyde	mg/kg		--	--	--	--	--	*0.002 UJ*	--	--	--	--	--	--
Endrin ketone	mg/kg		--	--	--	--	--	*0.002 U*	--	--	--	--	--	--
Heptachlor	mg/kg	0.0001	--	--	--	*0.002 U*	--	*0.00098 U*	--	--	--	--	*0.0012 U*	*0.0014 U*
Heptachlor Epoxide	mg/kg		--	--	--	--	--	*0.00098 U*	--	--	--	--	--	--
Lindane	mg/kg		--	--	--	*0.002 U*	--	*0.00098 U*	--	--	--	--	*0.002 U*	*0.0022 U*
Methoxychlor	mg/kg		--	--	--	--	--	*0.0098 U*	--	--	--	--	--	--
Mirex	mg/kg		--	--	--	--	--	*0.002 U*	--	--	--	--	--	--
Oxychlordane	mg/kg		--	--	--	--	--	*0.002 U*	--	--	--	--	--	--
Toxaphene	mg/kg		--	--	--	--	--	*0.098 U*	--	--	--	--	--	--
trans-Chlordane	mg/kg	0.0001	--	--	--	--	--	*0.00098 U*	--	--	--	--	--	--
trans-Nonachlor	mg/kg		--	--	--	--	--	*0.002 U*	--	--	--	--	--	--
Conventionals														
Total Organic Carbon	%		0.05 U	**2.14**	**0.642**	***0.27***	***1.7***	***2.76***	**2.8 J**	***1.91***	***1.83***	***2.2***	--	--

Table H.3.C. Surface Sediment Analytical Data - Non-LDW COCs

South Park Marina Site, Seattle, Washington

Notes:

Initial SL = Initial screening level, refer to Table H.2.B for basis.

mg/kg - milligrams per kilogram, dry weight

mg/kg-OC - milligrams per kilogram, normalized for organic carbon content (OC normalized)

cm - centimeters

% - percent

Gray Shaded Sample Locations and italicized analytical results - Sample is not included as part of the refined dataset for representative conditions due to age of the sample, removal via dredging, and/or replacement by a more recent collocated sample.

Pink Shaded - Total organic carbon (TOC) is outside the accepted range of 0.5 to 3.5%.

Green Shaded - Sample organic carbon content is outside the range for which the associated dry weight or OC-normalized screening level applies, and is therefore not compared to the screening level.

Bold - detected

Light Blue Shaded - Nondetected result (reporting limit) exceeded Initial SL.

Purple Shaded - Detected result exceeded screening level**.**

U - Analyte not detected at or above Reporting Limit (RL) shown.

J - Result value estimated.

UJ - Analyte not detected and the Reporting Limit (RL) is an estimate.

S - Estimated for other reason.

Table H.3.D. Subsurface Sediment Analytical Data - Full Dataset - Non-LDW COCs

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Gray - Sample not included as part of the refined dataset.
Pink Shaded - Outside accepted total organic carbon (TOC) range.
Green Shaded - Sample TOC outside range for associated screening level (SL).
Light Blue Shaded - Nondetected result (reporting limit) exceeded Initial SL.
Purple Shaded - Detected result exceeded Initial SL.

			Location	DU9004XX	DU9005XX	DU9124XX	DU9125XX	LDW13	LDW13	LDW13	LDW14	LDW14
			Date	08/28/1990	08/28/1990	08/06/1991	08/06/1991	10/16/2012	10/16/2012	10/16/2012	10/19/2012	10/19/2012
			Sample ID	DUWO&M90 S004	DUWO&M90 S005	DUWO&M91 S016	DUWO&M91 S017	LDW13 0-2C1 10162012	LDW13 2-7.2C2 10162012	LDW13 Z 10162012	LDW14 0-2C1 10192012	LDW14 2-4C2 10192012
			Depth	0 - 122 cm	0 - 214 cm	0 - 122 cm	0 - 122 cm	0 - 60 cm	60 - 200 cm	200 - 260 cm	0 - 60 cm	60 - 100 cm
Analyte	**Unit**	**Initial SL**										
Metals												
Antimony	mg/kg			***2***	***1.2***	--	--	8 UJ	9 J	8 J	8 UJ	9 UJ
Cobalt	mg/kg			--	--	--	--	--	--	--	--	--
Molybdenum	mg/kg			--	--	--	--	--	--	--	--	--
Nickel	mg/kg			***18***	***23***	--	--	**21**	**21**	**22**	**20**	**22**
Selenium	mg/kg			--	--	--	--	0.9 U	0.9 U	0.7 U	0.8 U	0.9 U
Thallium	mg/kg			--	--	--	--	--	--	--	--	--
Vanadium	mg/kg			--	--	--	--	--	--	--	--	--
Butyl Tins												
Monobutyltin	mg/kg			--	--	--	--	--	--	--	--	--
Dibutyltin Ion	mg/kg			--	--	--	--	--	--	--	--	--
Tributyltin Ion	mg/kg	0.0021		--	--	--	--	--	--	--	--	--
Butyl Tins - OC Normalized												
Mono-n-butyltin (OC normalized)	mg/kg-OC			--	--	--	--	--	--	--	--	--
Dibutyltin Ion (OC normalized)	mg/kg-OC			--	--	--	--	--	--	--	--	--
Tributyltin Ion (OC normalized)	mg/kg-OC			--	--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)												
1-Methylnaphthalene	mg/kg			--	--	--	--	**0.0085**	**0.0056**	**0.01**	0.004 U	0.0047 U
Acenaphthylene	mg/kg	1.3		*0.01 U*	*0.01 U*	--	--	**0.0079**	**0.004 J**	**0.0082**	0.004 U	**0.0035 J**
Polycyclic Aromatic Hydrocarbons (PAHs) - OC Normalized												
Acenaphthylene (OC normalized)	mg/kg-OC	66		*0.417 U*	*0.417 U*	--	--	**0.441**	**0.199 J**	**0.381**	0.242 U	**0.143 J**
Other Semivolatile Organic Compounds (SVOCs)												
2,4,5-Trichlorophenol	mg/kg			--	--	--	--	--	--	--	--	--
2,4,6-Trichlorophenol	mg/kg			--	--	--	--	--	--	--	--	--
2,4-Dichlorophenol	mg/kg			--	--	--	--	--	--	--	--	--
2,4-Dinitrophenol	mg/kg			--	--	--	--	--	--	--	--	--
2,4-Dinitrotoluene	mg/kg			--	--	--	--	--	--	--	--	--
2,6-Dinitrotoluene	mg/kg			--	--	--	--	--	--	--	--	--
2-Chloronaphthalene	mg/kg			--	--	--	--	--	--	--	--	--
2-Chlorophenol	mg/kg			--	--	--	--	--	--	--	--	--
2-Methylphenol	mg/kg	0.063		*0.01 U*	*0.01 U*	--	--	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U
2-Nitroaniline	mg/kg			--	--	--	--	--	--	--	--	--
2-Nitrophenol	mg/kg			--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	mg/kg			--	--	--	--	--	--	--	--	--
3-Nitroaniline	mg/kg			--	--	--	--	--	--	--	--	--
4,6-Dinitro-2-methylphenol	mg/kg			--	--	--	--	--	--	--	--	--
4-Bromophenyl phenyl ether	mg/kg			--	--	--	--	--	--	--	--	--
4-Chloro-3-methylphenol	mg/kg			--	--	--	--	--	--	--	--	--
4-Chloroaniline	mg/kg			--	--	--	--	--	--	--	--	--
4-Chlorophenyl phenyl ether	mg/kg			--	--	--	--	--	--	--	--	--
4-Nitroaniline	mg/kg			--	--	--	--	--	--	--	--	--
4-Nitrophenol	mg/kg			--	--	--	--	--	--	--	--	--
Aniline	mg/kg			--	--	--	--	--	--	--	--	--
Bis(2-chloro-1-methylethyl) ether	mg/kg			--	--	--	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	mg/kg			--	--	--	--	--	--	--	--	--
Bis(2-chloroethyl) ether	mg/kg			--	--	--	--	--	--	--	--	--
Carbazole	mg/kg			--	--	--	--	--	--	--	--	--
Diethyl phthalate	mg/kg	0.2		*0.01 U*	*0.01 U*	--	--	0.048 U	0.048 U	0.047 U	0.049 U	0.047 U
Di-n-butyl phthalate	mg/kg	1.4		*0.01 U*	*0.01 U*	--	--	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U
Di-n-octyl phthalate	mg/kg	6.2		*0.01 U*	*0.01 U*	--	--	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U
Hexachlorobutadiene	mg/kg	0.011		*0.01 U*	*0.01 U*	--	--	0.0049 U	0.005 U	0.0047 U	0.0048 U	0.0049 U
Hexachlorocyclopentadiene	mg/kg			--	--	--	--	--	--	--	--	--
Hexachloroethane	mg/kg			*0.01 U*	*0.01 U*	--	--	--	--	--	--	--
Isophorone	mg/kg			--	--	--	--	--	--	--	--	--
Nitrobenzene	mg/kg			--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine	mg/kg			--	--	--	--	--	--	--	--	--
N-Nitroso-di-n-propylamine	mg/kg			--	--	--	--	--	--	--	--	--
Other Semivolatile Organic Compounds (SVOCs) - OC Normalized												
Diethyl phthalate (OC normalized)	mg/kg-OC	61		*0.417 U*	*0.417 U*	--	--	2.68 U	2.39 U	2.19 U	2.97 U	1.93 U
Di-n-butyl phthalate (OC normalized)	mg/kg-OC	220		*0.417 U*	*0.417 U*	--	--	1.06 U	0.945 U	0.884 U	1.15 U	0.779 U
Di-n-octyl phthalate (OC normalized)	mg/kg-OC	58		*0.417 U*	*0.417 U*	--	--	1.06 U	0.945 U	0.884 U	1.15 U	0.779 U
Hexachlorobutadiene (OC normalized)	mg/kg-OC	3.9		*0.417 U*	*0.417 U*	--	--	0.274 U	0.249 U	0.219 U	0.291 U	0.201 U
Volatile Organic Compounds (VOCs)												
1,3-Dichlorobenzene	mg/kg			*0.01 U*	*0.01 U*	--	--	--	--	--	--	--
Ethylbenzene	mg/kg			*0.002 U*	*0.002 U*	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	mg/kg			--	--	--	--	--	--	--	--	--
Total Xylenes	mg/kg			*0.002 U*	*0.002 U*	--	--	--	--	--	--	--
Trichloroethene (TCE)	mg/kg			*0.002 U*	*0.002 U*	--	--	--	--	--	--	--
Pesticides and Herbicides												
2,4'-DDD	mg/kg			--	--	--	--	--	--	--	--	--
2,4'-DDE	mg/kg			--	--	--	--	--	--	--	--	--
2,4'-DDT	mg/kg			--	--	--	--	--	--	--	--	--
4,4'-DDD	mg/kg			--	--	--	--	0.0049 U	0.005 U	0.0047 U	0.0048 U	0.0049 U
4,4'-DDE	mg/kg			--	--	--	--	0.0049 U	0.005 U	0.0047 U	0.0048 U	0.0049 U
4,4'-DDT	mg/kg	0.0001		--	--	--	--	0.0049 U	0.0072 U	**0.02 J**	0.0048 UJ	0.0049 UJ
Aldrin	mg/kg	0.0001		--	--	***0.0032***	***0.0033***	0.0024 U	0.0025 U	0.0024 U	0.0024 U	0.0024 U
Alpha-BHC	mg/kg			--	--	--	--	--	--	--	--	--
Beta-BHC	mg/kg			--	--	--	--	--	--	--	--	--
Chlordane	mg/kg			--	--	*< 0.0025 U*	*0.0025 U*	--	--	--	--	--
cis-Chlordane	mg/kg	0.0001		--	--	--	--	0.0024 UJ	0.0025 UJ	0.0024 UJ	0.0024 UJ	0.0024 UJ
cis-Nonachlor	mg/kg			--	--	--	--	0.0049 UJ	0.005 J	0.0047 UJ	0.0048 J	0.0049 J
Delta-BHC	mg/kg			--	--	--	--	--	--	--	--	--
Dieldrin	mg/kg	0.0001		--	--	*0.001 U*	*0.001 U*	0.0049 UJ	0.005 UJ	0.0047 UJ	0.0048 J	0.0049 UJ
Endosulfan I	mg/kg			--	--	--	--	--	--	--	--	--
Endosulfan II	mg/kg			--	--	--	--	--	--	--	--	--
Endosulfan Sulfate	mg/kg			--	--	--	--	--	--	--	--	--
Endrin	mg/kg			--	--	--	--	--	--	--	--	--
Endrin Aldehyde	mg/kg			--	--	--	--	--	--	--	--	--
Endrin ketone	mg/kg			--	--	--	--	--	--	--	--	--
Heptachlor	mg/kg	0.0001		--	--	--	--	0.0024 UJ	0.0025 UJ	0.0024 UJ	0.0024 UJ	0.0024 UJ
Heptachlor Epoxide	mg/kg			--	--	*< 0.0012 U*	***0.0047***	--	--	--	--	--
Lindane	mg/kg			--	--	--	--	--	--	--	--	--
Methoxychlor	mg/kg			--	--	--	--	--	--	--	--	--
Mirex	mg/kg			--	--	--	--	--	--	--	--	--
Oxychlordane	mg/kg			--	--	--	--	0.0049 J	0.005 UJ	0.0047 J	0.0048 J	0.0049 UJ
Toxaphene	mg/kg			--	--	--	--	--	--	--	--	--
trans-Chlordane	mg/kg	0.0001		--	--	***0.0013***	***0.0025***	0.0024 UJ	0.0025 UJ	0.0024 UJ	0.0024 UJ	0.0024 UJ
trans-Nonachlor	mg/kg			--	--	--	--	0.0049 J	0.005 J	0.0047 UJ	0.0048 J	0.0049 UJ
Conventionals												
Total Organic Carbon	%			***2.4***	***2.4***	--	--	**1.79**	**2.01**	**2.15**	**1.65**	**2.44**

Table H.3.D. Subsurface Sediment Analytical Data - Full Dataset - Non-LDW COCs

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Gray - Sample not included as part of the refined dataset.
Pink Shaded - Outside accepted total organic carbon (TOC) range.
Green Shaded - Sample TOC outside range for associated screening level (SL).
Light Blue Shaded - Nondetected result (reporting limit) exceeded Initial SL.
Purple Shaded - Detected result exceeded Initial SL.

			Location	LDW14	LDW14	LDW20-SC153	LDW20-SC155	LDW20-SC160	LDW20-SC166	LDW21-SC549	LDW21-SC549	LDW21-SC549
			Date	10/19/2012	10/19/2012	06/26/2020	06/08/2020	06/15/2020	06/08/2020	07/01/2021	07/01/2021	07/01/2021
			Sample ID	LDW14 4-6.8C3 10192012	LDW14 Z 10192012	LDW20-SC153B	LDW20-SC155B	LDW20-SC160C	LDW20-SC166C	LDW21-SC549A	LDW21-SC549B	LDW21-SC549C
			Depth	100 - 200 cm	200 - 270 cm	75 - 135 cm	49 - 109 cm	1235 - 183 cm	141 - 201 cm	0 - 60 cm	60 - 90 cm	90 - 120 cm
Analyte	**Unit**	**Initial SL**										
Metals												
Antimony	mg/kg			9 J	9 UJ	--	--	--	--	--	--	--
Cobalt	mg/kg			--	--	--	--	--	--	--	--	--
Molybdenum	mg/kg			--	--	--	--	--	--	--	--	--
Nickel	mg/kg			**24**	**21**	--	--	--	--	--	--	--
Selenium	mg/kg			0.9 U	0.9 U	--	--	--	--	--	--	--
Thallium	mg/kg			--	--	--	--	--	--	--	--	--
Vanadium	mg/kg			--	--	--	--	--	--	--	--	--
Butyl Tins												
Monobutyltin	mg/kg			--	--	--	--	--	--	--	--	--
Dibutyltin Ion	mg/kg			--	--	--	--	--	--	--	--	--
Tributyltin Ion	mg/kg	0.0021		--	--	--	--	--	--	--	--	--
Butyl Tins - OC Normalized												
Mono-n-butyltin (OC normalized)	mg/kg-OC			--	--	--	--	--	--	--	--	--
Dibutyltin Ion (OC normalized)	mg/kg-OC			--	--	--	--	--	--	--	--	--
Tributyltin Ion (OC normalized)	mg/kg-OC			--	--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)												
1-Methylnaphthalene	mg/kg			0.0048 U	0.0048 U	--	--	--	--	--	--	--
Acenaphthylene	mg/kg	1.3		**0.006**	**0.0032 J**	0.0199 U	0.0199 U	0.0199 U	0.0199 U	**0.00253 J**	**0.00506**	**0.00156 J**
Polycyclic Aromatic Hydrocarbons (PAHs) - OC Normalized												
Acenaphthylene (OC normalized)	mg/kg-OC	66		**0.219**	**0.187 J**	1.14 U	1.57 U	1.14 U	1.18 U	**0.148 J**	**0.288**	**0.0821 J**
Other Semivolatile Organic Compounds (SVOCs)												
2,4,5-Trichlorophenol	mg/kg			--	--	--	--	--	--	--	--	--
2,4,6-Trichlorophenol	mg/kg			--	--	--	--	--	--	--	--	--
2,4-Dichlorophenol	mg/kg			--	--	--	--	--	--	--	--	--
2,4-Dinitrophenol	mg/kg			--	--	--	--	--	--	--	--	--
2,4-Dinitrotoluene	mg/kg			--	--	--	--	--	--	--	--	--
2,6-Dinitrotoluene	mg/kg			--	--	--	--	--	--	--	--	--
2-Chloronaphthalene	mg/kg			--	--	--	--	--	--	--	--	--
2-Chlorophenol	mg/kg			--	--	--	--	--	--	--	--	--
2-Methylphenol	mg/kg	0.063		0.02 U	0.02 U	--	--	--	--	--	--	--
2-Nitroaniline	mg/kg			--	--	--	--	--	--	--	--	--
2-Nitrophenol	mg/kg			--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	mg/kg			--	--	--	--	--	--	--	--	--
3-Nitroaniline	mg/kg			--	--	--	--	--	--	--	--	--
4,6-Dinitro-2-methylphenol	mg/kg			--	--	--	--	--	--	--	--	--
4-Bromophenyl phenyl ether	mg/kg			--	--	--	--	--	--	--	--	--
4-Chloro-3-methylphenol	mg/kg			--	--	--	--	--	--	--	--	--
4-Chloroaniline	mg/kg			--	--	--	--	--	--	--	--	--
4-Chlorophenyl phenyl ether	mg/kg			--	--	--	--	--	--	--	--	--
4-Nitroaniline	mg/kg			--	--	--	--	--	--	--	--	--
4-Nitrophenol	mg/kg			--	--	--	--	--	--	--	--	--
Aniline	mg/kg			--	--	--	--	--	--	--	--	--
Bis(2-chloro-1-methylethyl) ether	mg/kg			--	--	--	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	mg/kg			--	--	--	--	--	--	--	--	--
Bis(2-chloroethyl) ether	mg/kg			--	--	--	--	--	--	--	--	--
Carbazole	mg/kg			--	--	--	--	--	--	--	--	--
Diethyl phthalate	mg/kg	0.2		0.05 U	0.049 U	--	--	--	--	--	--	--
Di-n-butyl phthalate	mg/kg	1.4		0.02 U	0.02 U	--	--	--	--	--	--	--
Di-n-octyl phthalate	mg/kg	6.2		0.02 U	**0.021**	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	0.011		0.0048 U	0.0048 U	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	mg/kg			--	--	--	--	--	--	--	--	--
Hexachloroethane	mg/kg			--	--	--	--	--	--	--	--	--
Isophorone	mg/kg			--	--	--	--	--	--	--	--	--
Nitrobenzene	mg/kg			--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine	mg/kg			--	--	--	--	--	--	--	--	--
N-Nitroso-di-n-propylamine	mg/kg			--	--	--	--	--	--	--	--	--
Other Semivolatile Organic Compounds (SVOCs) - OC Normalized												
Diethyl phthalate (OC normalized)	mg/kg-OC	61		1.82 U	2.87 U	--	--	--	--	--	--	--
Di-n-butyl phthalate (OC normalized)	mg/kg-OC	220		0.73 U	1.17 U	--	--	--	--	--	--	--
Di-n-octyl phthalate (OC normalized)	mg/kg-OC	58		0.73 U	**1.23**	--	--	--	--	--	--	--
Hexachlorobutadiene (OC normalized)	mg/kg-OC	3.9		0.175 U	0.281 U	--	--	--	--	--	--	--
Volatile Organic Compounds (VOCs)												
1,3-Dichlorobenzene	mg/kg			--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg			--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	mg/kg			--	--	--	--	--	--	--	--	--
Total Xylenes	mg/kg			--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	mg/kg			--	--	--	--	--	--	--	--	--
Pesticides and Herbicides												
2,4'-DDD	mg/kg			--	--	--	--	--	--	--	--	--
2,4'-DDE	mg/kg			--	--	--	--	--	--	--	--	--
2,4'-DDT	mg/kg			--	--	--	--	--	--	--	--	--
4,4'-DDD	mg/kg			0.0048 U	0.0048 U	--	--	--	--	--	--	--
4,4'-DDE	mg/kg			0.0048 U	0.0048 U	--	--	--	--	--	--	--
4,4'-DDT	mg/kg	0.0001		0.01 UJ	**0.013 J**	--	--	--	--	--	--	--
Aldrin	mg/kg	0.0001		0.0024 U	0.0024 U	--	--	--	--	--	--	--
Alpha-BHC	mg/kg			--	--	--	--	--	--	--	--	--
Beta-BHC	mg/kg			--	--	--	--	--	--	--	--	--
Chlordane	mg/kg			--	--	--	--	--	--	--	--	--
cis-Chlordane	mg/kg	0.0001		0.0024 UJ	0.0024 UJ	--	--	--	--	--	--	--
cis-Nonachlor	mg/kg			0.0048 UJ	0.0048 J	--	--	--	--	--	--	--
Delta-BHC	mg/kg			--	--	--	--	--	--	--	--	--
Dieldrin	mg/kg	0.0001		0.0048 UJ	0.0048 J	--	--	--	--	--	--	--
Endosulfan I	mg/kg			--	--	--	--	--	--	--	--	--
Endosulfan II	mg/kg			--	--	--	--	--	--	--	--	--
Endosulfan Sulfate	mg/kg			--	--	--	--	--	--	--	--	--
Endrin	mg/kg			--	--	--	--	--	--	--	--	--
Endrin Aldehyde	mg/kg			--	--	--	--	--	--	--	--	--
Endrin ketone	mg/kg			--	--	--	--	--	--	--	--	--
Heptachlor	mg/kg	0.0001		0.0024 UJ	0.0024 UJ	--	--	--	--	--	--	--
Heptachlor Epoxide	mg/kg			--	--	--	--	--	--	--	--	--
Lindane	mg/kg			--	--	--	--	--	--	--	--	--
Methoxychlor	mg/kg			--	--	--	--	--	--	--	--	--
Mirex	mg/kg			--	--	--	--	--	--	--	--	--
Oxychlordane	mg/kg			0.0048 J	0.0048 UJ	--	--	--	--	--	--	--
Toxaphene	mg/kg			--	--	--	--	--	--	--	--	--
trans-Chlordane	mg/kg	0.0001		0.0024 UJ	0.0024 UJ	--	--	--	--	--	--	--
trans-Nonachlor	mg/kg			0.0048 J	0.0048 J	--	--	--	--	--	--	--
Conventionals												
Total Organic Carbon	%			**2.74**	**1.71**	**1.75**	**1.27**	**1.74**	**1.68**	**1.71**	**1.76**	**1.9**

Table H.3.D. Subsurface Sediment Analytical Data - Full Dataset - Non-LDW COCs

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Gray - Sample not included as part of the refined dataset.
Pink Shaded - Outside accepted total organic carbon (TOC) range.
Green Shaded - Sample TOC outside range for associated screening level (SL).
Light Blue Shaded - Nondetected result (reporting limit) exceeded Initial SL.
Purple Shaded - Detected result exceeded Initial SL.

			Location	LDW21-SC549	LDW21-SC549	*SPRK0302*	*T117-SE-COMP1-SC*	*T117-SE-COMP2and3-SC*	*T117-SE-COMP2and3-SC*	*T117-SE-COMP4-SC*
			Date	07/01/2021	07/01/2021	*09/14/1991*	*09/16/2004*	*09/16/2004*	*09/16/2004*	*09/16/2004*
			Sample ID	LDW21-SC549E	LDW21-SC549G	*C2*	*T117-SC-COMP1*	*T117-SC-COMP2*	*T117-SC-COMP3*	*T117-SC-COMP4*
			Depth	150 - 180 cm	210 - 240 cm	*0 - 30 cm*	*0 - 100 cm*	*61 - 122 cm*	*0 - 61 cm*	*0 - 61 cm*
Analyte	**Unit**	**Initial SL**								
Metals										
Antimony	mg/kg			--	--	***0.49***	--	--	--	--
Cobalt	mg/kg			--	--	--	--	--	--	--
Molybdenum	mg/kg			--	--	--	--	--	--	--
Nickel	mg/kg			--	--	*45 U*	***24***	***24***	***25***	--
Selenium	mg/kg			--	--	--	--	--	--	--
Thallium	mg/kg			--	--	--	--	--	--	--
Vanadium	mg/kg			--	--	--	--	--	--	--
Butyl Tins										
Monobutyltin	mg/kg			--	--	--	--	--	--	--
Dibutyltin Ion	mg/kg			--	--	--	--	--	--	--
Tributyltin Ion	mg/kg	0.0021		--	--	--	--	***0.12***	*0.0049 U*	--
Butyl Tins - OC Normalized										
Mono-n-butyltin (OC normalized)	mg/kg-OC			--	--	--	--	--	--	--
Dibutyltin Ion (OC normalized)	mg/kg-OC			--	--	--	--	--	--	--
Tributyltin Ion (OC normalized)	mg/kg-OC			--	--	--	--	***5.69***	*0.212 U*	--
Polycyclic Aromatic Hydrocarbons (PAHs)										
1-Methylnaphthalene	mg/kg			--	--	--	--	--	--	--
Acenaphthylene	mg/kg	1.3		**0.00168 J**	**0.00611**	*0.064 U*	*0.02 U*	*0.035 U*	*0.019 U*	--
Polycyclic Aromatic Hydrocarbons (PAHs) - OC Normalized										
Acenaphthylene (OC normalized)	mg/kg-OC	66		**0.0836 J**	**0.16**	*21.3 U*	*0.901 U*	*1.66 U*	*0.823 U*	--
Other Semivolatile Organic Compounds (SVOCs)										
2,4,5-Trichlorophenol	mg/kg			--	--	--	*0.099 U*	--	--	--
2,4,6-Trichlorophenol	mg/kg			--	--	--	*0.099 U*	--	--	--
2,4-Dichlorophenol	mg/kg			--	--	--	*0.059 U*	--	--	--
2,4-Dinitrophenol	mg/kg			--	--	--	*0.2 U*	--	--	--
2,4-Dinitrotoluene	mg/kg			--	--	--	*0.099 U*	--	--	--
2,6-Dinitrotoluene	mg/kg			--	--	--	*0.099 U*	--	--	--
2-Chloronaphthalene	mg/kg			--	--	--	*0.02 U*	--	--	--
2-Chlorophenol	mg/kg			--	--	--	*0.02 U*	--	--	--
2-Methylphenol	mg/kg	0.063		--	--	*0.02 U*	*0.02 U*	*0.035 U*	*0.019 U*	--
2-Nitroaniline	mg/kg			--	--	--	*0.099 U*	--	--	--
2-Nitrophenol	mg/kg			--	--	--	*0.099 U*	--	--	--
3,3'-Dichlorobenzidine	mg/kg			--	--	--	*0.099 U*	--	--	--
3-Nitroaniline	mg/kg			--	--	--	*0.12 U*	--	--	--
4,6-Dinitro-2-methylphenol	mg/kg			--	--	--	*0.2 U*	--	--	--
4-Bromophenyl phenyl ether	mg/kg			--	--	--	*0.02 U*	--	--	--
4-Chloro-3-methylphenol	mg/kg			--	--	--	*0.039 U*	--	--	--
4-Chloroaniline	mg/kg			--	--	--	*0.059 U*	--	--	--
4-Chlorophenyl phenyl ether	mg/kg			--	--	--	*0.02 U*	--	--	--
4-Nitroaniline	mg/kg			--	--	--	*0.099 U*	--	--	--
4-Nitrophenol	mg/kg			--	--	--	*0.099 U*	--	--	--
Aniline	mg/kg			--	--	--	--	--	--	--
Bis(2-chloro-1-methylethyl) ether	mg/kg			--	--	--	*0.02 U*	--	--	--
Bis(2-chloroethoxy)methane	mg/kg			--	--	--	*0.02 U*	--	--	--
Bis(2-chloroethyl) ether	mg/kg			--	--	--	*0.039 U*	--	--	--
Carbazole	mg/kg			--	--	--	*0.02 U*	--	--	--
Diethyl phthalate	mg/kg	0.2		--	--	*0.097 U*	*0.02 U*	*0.035 U*	*0.019 U*	--
Di-n-butyl phthalate	mg/kg	1.4		--	--	*1.4 U*	*0.02 U*	*0.035 U*	*0.019 U*	--
Di-n-octyl phthalate	mg/kg	6.2		--	--	*6.2 U*	*0.02 U*	*0.035 U*	*0.019 U*	--
Hexachlorobutadiene	mg/kg	0.011		--	--	*0.029 U*	--	*0.00099 U*	*0.00098 U*	--
Hexachlorocyclopentadiene	mg/kg			--	--	--	--	--	--	--
Hexachloroethane	mg/kg			--	--	*1.4 U*	--	*0.035 U*	*0.019 U*	--
Isophorone	mg/kg			--	--	--	*0.02 U*	--	--	--
Nitrobenzene	mg/kg			--	--	--	*0.02 U*	--	--	--
N-Nitrosodimethylamine	mg/kg			--	--	--	--	--	--	--
N-Nitroso-di-n-propylamine	mg/kg			--	--	--	*0.039 U*	--	--	--
Other Semivolatile Organic Compounds (SVOCs) - OC Normalized										
Diethyl phthalate (OC normalized)	mg/kg-OC	61		--	--	*32.3 U*	*0.901 U*	*1.66 U*	*0.823 U*	--
Di-n-butyl phthalate (OC normalized)	mg/kg-OC	220		--	--	*467 U*	*0.901 U*	*1.66 U*	*0.823 U*	--
Di-n-octyl phthalate (OC normalized)	mg/kg-OC	58		--	--	*2070 U*	*0.901 U*	*1.66 U*	*0.823 U*	--
Hexachlorobutadiene (OC normalized)	mg/kg-OC	3.9		--	--	*9.67 U*	--	*0.0469 U*	*0.0424 U*	--
Volatile Organic Compounds (VOCs)										
1,3-Dichlorobenzene	mg/kg			--	--	*0.17 U*	*0.02 U*	*0.035 U*	*0.019 U*	--
Ethylbenzene	mg/kg			--	--	*0.01 U*	--	--	--	--
Tetrachloroethene (PCE)	mg/kg			--	--	*0.01 U*	--	--	--	--
Total Xylenes	mg/kg			--	--	*0.01 U*	--	--	--	--
Trichloroethene (TCE)	mg/kg			--	--	*0.01 U*	--	--	--	--
Pesticides and Herbicides										
2,4'-DDD	mg/kg			--	--	--	--	--	--	--
2,4'-DDE	mg/kg			--	--	--	--	--	--	--
2,4'-DDT	mg/kg			--	--	--	--	--	--	--
4,4'-DDD	mg/kg			--	--	*0.002 U*	*0.002 U*	*0.002 U*	*0.002 U*	--
4,4'-DDE	mg/kg			--	--	*0.002 U*	*0.002 U*	*0.002 U*	*0.002 U*	--
4,4'-DDT	mg/kg	0.0001		--	--	*0.002 U*	*0.002 U*	*0.002 U*	*0.002 U*	--
Aldrin	mg/kg	0.0001		--	--	*0.002 U*	*0.001 U*	*0.00099 U*	*0.00098 U*	--
Alpha-BHC	mg/kg			--	--	--	--	--	--	--
Beta-BHC	mg/kg			--	--	--	--	--	--	--
Chlordane	mg/kg			--	--	*0.002 U*	--	--	--	--
cis-Chlordane	mg/kg	0.0001		--	--	--	*0.001 U*	*0.00099 U*	*0.00098 U*	--
cis-Nonachlor	mg/kg			--	--	--	--	--	--	--
Delta-BHC	mg/kg			--	--	--	--	--	--	--
Dieldrin	mg/kg	0.0001		--	--	*0.002 U*	*0.0059 U*	*0.002 U*	*0.0056 U*	--
Endosulfan I	mg/kg			--	--	--	--	--	--	--
Endosulfan II	mg/kg			--	--	--	--	--	--	--
Endosulfan Sulfate	mg/kg			--	--	--	--	--	--	--
Endrin	mg/kg			--	--	--	--	--	--	--
Endrin Aldehyde	mg/kg			--	--	--	--	--	--	--
Endrin ketone	mg/kg			--	--	--	--	--	--	--
Heptachlor	mg/kg	0.0001		--	--	*0.002 U*	*0.001 U*	*0.00099 U*	*0.00098 U*	--
Heptachlor Epoxide	mg/kg			--	--	--	--	--	--	--
Lindane	mg/kg			--	--	*0.002 U*	*0.001 U*	*0.00099 U*	*0.00098 U*	--
Methoxychlor	mg/kg			--	--	--	--	--	--	--
Mirex	mg/kg			--	--	--	--	--	--	--
Oxychlordane	mg/kg			--	--	--	--	--	--	--
Toxaphene	mg/kg			--	--	--	--	--	--	--
trans-Chlordane	mg/kg	0.0001		--	--	--	--	--	--	--
trans-Nonachlor	mg/kg			--	--	--	--	--	--	--
Conventionals										
Total Organic Carbon	%			**2.01**	**3.83**	***0.3***	***2.22***	***2.11***	***2.31***	***2.45***

Table H.3.D. Subsurface Sediment Analytical Data - Non-LDW COCs

South Park Marina Site, Seattle, Washington

Notes:

Initial SL = Initial screening level, refer to Table H.2.B for basis.

cm - centimeters

mg/kg - milligrams per kilogram, dry weight

mg/kg-OC - milligrams per kilogram, normalized for organic carbon content (OC normalized)

% - percent

Gray Shaded Sample Locations and italicized analytical results - Sample is not included as part of the refined dataset for representative conditions due to age of the sample, removal via dredging, and/or replacement by a more recent collocated sample.

Pink Shaded - Total organic carbon (TOC) is outside the accepted range of 0.5 to 3.5%.

Green Shaded - Sample organic carbon content is outside the range for which the associated dry weight or OC-normalized screening level applies, and is therefore not compared to the screening level.

Bold - detected

Light Blue Shaded - Nondetected result (reporting limit) exceeded Initial SL

Purple Shaded - Detected result exceeded Initial SL

U - Analyte not detected at or above reporting limit shown

J - Result value estimated

UJ - Analyte not detected and the reporting limit is an estimate

S - Estimated for other reason

Table H.4. Statistics for Analytes in Sediment Exceeding Initial SLs - Full Dataset

South Park Marina Site, Seattle, Washington

Initial Screening Levels, Refer to Tables H.2.A and H.2.B												
COC Grouping	**Depth**	**TOC Range**	**Analyte**	**Units**	**No. of Samples**	**No. of Samples with Detected Conc.**	**Frequency of Detection**	**Initial SL**	**No. of Detected Exceedances**	**Frequency of Exceedance**	**Max. Detected Conc.**	**Max. Exceedance Factor**
LDW COCs	Surface	All	Arsenic	mg/kg	36	35	97%	7.0	27	75%	20	2.9
			Mercury	mg/kg	33	32	97%	0.41	1	3%	0.462	1.1
			4-Methylphenol	mg/kg	27	6	22%	0.67	1	4%	4.9	7.3
			Benzyl alcohol	mg/kg	31	20	65%	0.057	8	26%	0.28	4.9
			Phenol	mg/kg	34	16	47%	0.42	1	3%	0.48	1.1
			Total PCB Aroclors (ND = 0)	mg/kg	104	99	95%	0.002	99	95%	43.4	21,700
			Total PCB Congeners (ND = 0)	mg/kg	24	24	100%	0.002	23	96%	0.197	99
			Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	12	12	100%	2.0E-06	6	50%	9.4E-06	4.7
		Inside	Total PCB Aroclors (ND =0) (OC normalized)	mg/kg-OC	97	93	96%	12	13	13%	92.1	7.7
			Total PCB Congeners (ND =0) (OC normalized)	mg/kg-OC	24	24	100%	12	0	0%	12	1.0
	Subsurface	All	Arsenic	mg/kg	18	17	94%	7	16	89%	11	1.6
			Mercury	mg/kg	22	21	95%	0.41	0	0%	0.17	0.4
			Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	16	16	100%	2E-06	13	81%	2.24E-05	11
			4-Methylphenol	mg/kg	16	6	38%	0.67	0	0%	0.028	0.0
			Benzyl alcohol	mg/kg	16	10	63%	0.057	7	44%	0.22	3.9
			Phenol	mg/kg	16	9	56%	0.42	0	0%	0.12	0.3
			Total PCB Aroclors (ND = 0)	mg/kg	116	111	96%	0.002	111	96%	2.2	1,100
			Total PCB Congeners (ND = 0)	mg/kg	40	40	100%	0.002	40	100%	0.388	194
		Inside	Total PCB Aroclors (ND = 0) (OC normalized)	mg/kg-OC	112	107	96%	12	21	19%	110	9.2
			Total PCB Congeners (ND = 0) (OC normalized)	mg/kg-OC	39	39	100%	12	5	13%	18	1.5
Non-LDW COCs	Surface	All	Tributyl Tin / Tributyl Tin Ion	mg/kg	5	3	60%	0.0021	3	60%	0.019	9.0
			Aldrin	mg/kg	5	1	20%	0.0001	1	20%	0.046	460
	Subsurface	All	Tributyl Tin / Tributyl Tin Ion	mg/kg	2	1	50%	0.0021	1	50%	0.12	57
			4,4'-DDT	mg/kg	11	2	18%	0.0001	2	18%	0.02	200
			Aldrin	mg/kg	13	2	15%	0.0001	2	15%	0.0033	33
			trans-Chlordane	mg/kg	9	2	22%	0.0001	2	22%	0.0025	25

Notes:

COC - contaminant of concern
SL - screening level
TOC Range - Total organic carbon range; 0.5 - 3.5% is the standard TOC range for the LDW
LDW - Lower Duwamish Waterway
PCB - polychlorinated biphenyl
Surface samples are those collected from 0 to 10 centimeters in depth.
Subsurface samples are any samples whose depth interval is greater than 10 centimeters in depth, including some samples collected from 0 to greater than 10 centimeters in depth; e.g., 0 to 45 or 0 to 60 centimeter depth intervals.
Gray Shading - Indicates the maximum concentration of an analyte exceeds the Initial SL, and the analyte is retained for further evaluation.

mg/kg - milligrams per kilogram, dry weight
mg/kg-OC - milligrams per kilogram, normalized for organic carbon content (OC normalized)
ND = 0 - Calculated using zero for nondetected components.
ND = 1/2 RDL - Calculated using one-half the reporting limit for nondetected components.
TEQ - toxic equivalency

Table H.5. Sediment Selected Screening Levels

South Park Marina Site, Seattle, Washington

Analyte	Step #5: Selected Screening Levels[1]								
	Surface Sediment (0-10 cm)						Subsurface Sediment		
	If Sample TOC is Within 0.5-3.5%			If Sample TOC is Outside 0.5-3.5%			All Sample TOCs		
	Selected Sediment SL		Basis	Selected Sediment SL		Basis	Selected Sediment SL		Basis
Metals									
Arsenic	7	mg/kg	MIN ROD CUL (RAO 2)	7	mg/kg	MIN ROD CUL (RAO 2)	7	mg/kg	MIN ROD CUL (RAO 2)
Mercury	0.41	mg/kg	MIN ROD CUL (RAO 3)	0.41	mg/kg	MIN ROD CUL (RAO 3)	0.41[2]	mg/kg	MIN ROD CUL (RAO 3)
Butyl Tins									
Tributyltin / Tributyl Tin Ion	0.0021	mg/kg	SCO-HCS	0.0021	mg/kg	SCO-HCS	0.0021	mg/kg	SCO-HCS
Polychlorinated Biphenyl (PCB) Aroclors									
Total PCB Aroclors and Congeners (ND = 0)	12 0.002	mg/kg-OC mg/kg	MIN ROD CUL (RAO 3) MIN ROD CUL (RAO 1)	0.002	mg/kg	MIN ROD CUL (RAO 1)	**0.5**	**mg/kg**	**ROD CUL (RAO 2)**
Dioxins/Furans									
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	2E-06	mg/kg	MIN ROD CUL (RAO 1)	2E-06	mg/kg	MIN ROD CUL (RAO 1)	**1.3E-05**	**mg/kg**	**ROD CUL (RAO 2)**
Other Semivolatile Organic Compounds (SVOCs)									
4-Methylphenol	0.67	mg/kg	MIN ROD CUL (RAO 3)	0.67	mg/kg	MIN ROD CUL (RAO 3)	0.67[2]	mg/kg	MIN ROD CUL (RAO 3)
Benzyl alcohol	0.057	mg/kg	MIN ROD CUL (RAO 3)	0.057	mg/kg	MIN ROD CUL (RAO 3)	0.057[2]	mg/kg	MIN ROD CUL (RAO 3)
Phenol	0.42	mg/kg	MIN ROD CUL (RAO 3)	0.42	mg/kg	MIN ROD CUL (RAO 3)	0.42[2]	mg/kg	MIN ROD CUL (RAO 3)
Pesticides									
4,4'-DDT	0.0001	mg/kg	SCO-HCS	0.0001	mg/kg	SCO-HCS	0.0001	mg/kg	SCO-HCS
Aldrin	0.0001	mg/kg	SCO-HCS	0.0001	mg/kg	SCO-HCS	0.0001	mg/kg	SCO-HCS
trans-Chlordane	0.0001	mg/kg	SCO-HCS	0.0001	mg/kg	SCO-HCS	0.0001	mg/kg	SCO-HCS

Notes:

(1) - Refer to Section 6.1 for basis of Selected Sediment SL.

(2) - The Selected Sediment SL for mercury, 4-methylphenol, benzyl alcohol, and phenol in subsurface sediment is based on RAO 3, which is only applicalbe to surface sediment. However, the values listed are the only available SLs/ROD CULs for these chemicals and so they are applied to screening subsurface sediment as well.

Bold - Indicates Selected Sediment SL was adjusted from the Initial Sediment SL.

SL - screening level

cm - centimeters

TOC - total organic carbon

% - percent

mg/kg - milligrams per kilogram, dry weight

mg/kg-OC - milligrams per kilogram, normalized for organic carbon content (OC normalized)

ND = 0 - Calculated using zero for nondetected components.

ND = 1/2 RDL - Calculated using one-half the reporting limit for nondetected components.

TEQ - toxic equivalency

ROD CUL - Lower Duwamish Waterway Record of Decision Cleanup Level

MIN ROD CUL - Most stringent ROD CUL

RAO - Remedial Action Objective: RAO 1 = human consumption of seafood; RAO 2 = human direct contact; RAO 3 = benthic invertebrates.

SCO-HCS - SMS Lower Tier Sediment Cleanup Objective For Human Consumption of Seafood (based on the PQL).

Table H.6. Statistics for Analytes in Sediment Exceeding Initial SLs Compared to Selected SLs - Full Dataset

South Park Marina Site, Seattle, Washington

Selected Screening Levels[1]												
COC Grouping	Depth	TOC Range	Analyte	Units	No. of Samples	No. of Samples with Detected Conc.	Frequency of Detection	Selected SL	No. of Detected Exceedances	Frequency of Exceedance	Max. Detected Conc.	Max. Exceedance Factor
LDW COCs	Surface	All	Arsenic	mg/kg	36	35	97%	7.0	27	75%	20	2.9
			Mercury	mg/kg	33	32	97%	0.41	1	3%	0.462	1.1
			4-Methylphenol	mg/kg	27	6	22%	0.67	1	4%	4.9	7.3
			Benzyl alcohol	mg/kg	31	20	65%	0.057	8	26%	0.28	4.9
			Phenol	mg/kg	34	16	47%	0.42	1	3%	0.48	1.1
			Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	12	12	100%	2.0E-06	6	50%	9.4E-06	4.7
			Total PCB Aroclors (ND = 0)	mg/kg	104	99	95%	0.002	99	95%	43.4	21,700
			Total PCB Congeners (ND = 0)	mg/kg	24	24	100%	0.002	23	96%	0.197	99
		Inside	Total PCB Aroclors (ND =0) (OC normalized)	mg/kg-OC	97	93	96%	12	13	13%	92.1	7.7
	Subsurface	All	Arsenic	mg/kg	18	17	94%	7	16	89%	11	1.6
			Benzyl alcohol	mg/kg	16	10	63%	0.057	7	44%	0.22	3.9
			Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	16	16	100%	1.3E-05	4	25%	2.24E-05	1.7
			Total PCB Aroclors (ND = 0)	mg/kg	116	111	96%	0.5	5	4%	2.2	4.4
			Total PCB Congeners (ND = 0)	mg/kg	39	39	100%	0.5	0	0%	0.388	0.8
Non-LDW COCs	Surface	All	Tributyl Tin / Tributyl Tin Ion	mg/kg	5	3	60%	0.0021	3	60%	0.019	9.0
			Aldrin	mg/kg	5	1	20%	0.0001	1	20%	0.046	460
	Subsurface	All	Tributyl Tin / Tributyl Tin Ion	mg/kg	2	1	50%	0.0021	1	50%	0.12	57
			4,4'-DDT	mg/kg	11	2	18%	0.0001	2	18%	0.02	200
			Aldrin	mg/kg	13	2	15%	0.0001	2	15%	0.0033	33
			trans-Chlordane	mg/kg	9	2	22%	0.0001	2	22%	0.0025	25

Notes:

COC - contaminant of concern

SL = screening level

TOC Range - Total organic carbon range; 0.5 - 3.5% is the standard TOC range for the LDW

LDW - Lower Duwamish Waterway

PCB - polychlorinated biphenyls

mg/kg - milligrams per kilogram, dry weight

mg/kg-OC - milligrams per kilogram, normalized for organic carbon content (OC normalized)

ND = 0 - Calculated using zero for nondetected components

ND = 1/2 RDL - Calculated using one-half the reporting limit for nondetected components

TEQ - toxic equivalency

(1) - Refer to text for basis of Selected Screening Level (SL)

Statistics shown are for the full sediment dataset.

Surface samples are those collected from 0 to 10 centimeters in depth.

Subsurface samples are any samples whose depth interval is greater than 10 centimeters in depth, including some samples collected from 0 to greater than 10 centimeters in depth; e.g., 0 to 45 or 0 to 60 centimeter depth intervals.

Gray Shading - Indicates the maximum concentration of an analyte exceeds the Selected SL, and the analyte is retained for further evaluation.

Table H.7. Statistics for Analytes in Sediment Exceeding Initial SLs Compared to Selected SLs - Refined Dataset

South Park Marina Site, Seattle, Washington

Selected Screening Levels[1]												
COC Grouping	**Depth**	**TOC Range**	**Analyte**	**Units**	**No. of Samples**	**No. of Samples with Detected Conc.**	**Frequency of Detection**	**Selected SL**	**No. of Detected Exceedances**	**Frequency of Exceedance**	**Max. Detected Conc.**	**Max. Exceedance Factor**
LDW COCs	Surface	All	Arsenic	mg/kg	23	23	100%	7.0	16	70%	20	2.9
			Mercury	mg/kg	19	18	95%	0.41	1	5%	0.46	1.1
			4-Methylphenol	mg/kg	21	2	10%	0.67	0	0%	0.4	0.60
			Benzyl alcohol	mg/kg	19	15	79%	0.057	4	21%	0.28	4.9
			Phenol	mg/kg	22	8	36%	0.42	0	0%	0.079	0.19
			Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	6	6	100%	2.0E-06	0	0%	1.9E-06	0.95
			Total PCB Aroclors (ND = 0)	mg/kg	57	52	91%	0.002	52	91%	0.38	190
			Total PCB Congeners (ND = 0)	mg/kg	24	24	100%	0.002	23	96%	0.197	99
		Inside	Total PCB Aroclors (ND =0) (OC normalized)	mg/kg-OC	52	48	92%	12	2	4%	27.6	2.3
	Subsurface	All	Arsenic	mg/kg	12	11	92%	7.0	10	83%	11	1.6
			Benzyl alcohol	mg/kg	10	10	100%	0.057	7	70%	0.22	3.9
			Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	16	16	100%	1.3E-05	3	19%	2.24E-05	1.7
			Total PCB Aroclors (ND = 0)	mg/kg	100	97	97%	0.5	3	3%	0.826	1.7
Non-LDW COCs	Surface	All	Tributyl Tin / Tributyl Tin Ion	mg/kg	0	--	--	0.0021	--	--	--	--
			Aldrin	mg/kg	0	--	--	0.0001	--	--	--	--
	Subsurface	All	Tributyl Tin / Tributyl Tin Ion	mg/kg	0	--	--	0.0021	--	--	--	--
			4,4'-DDT	mg/kg	7	2	29%	0.0001	2	29%	0.02	200
			Aldrin	mg/kg	7	0	0%	0.0001	0	0%	--	--
			trans-Chlordane	mg/kg	7	0	0%	0.0001	0	0%	--	--

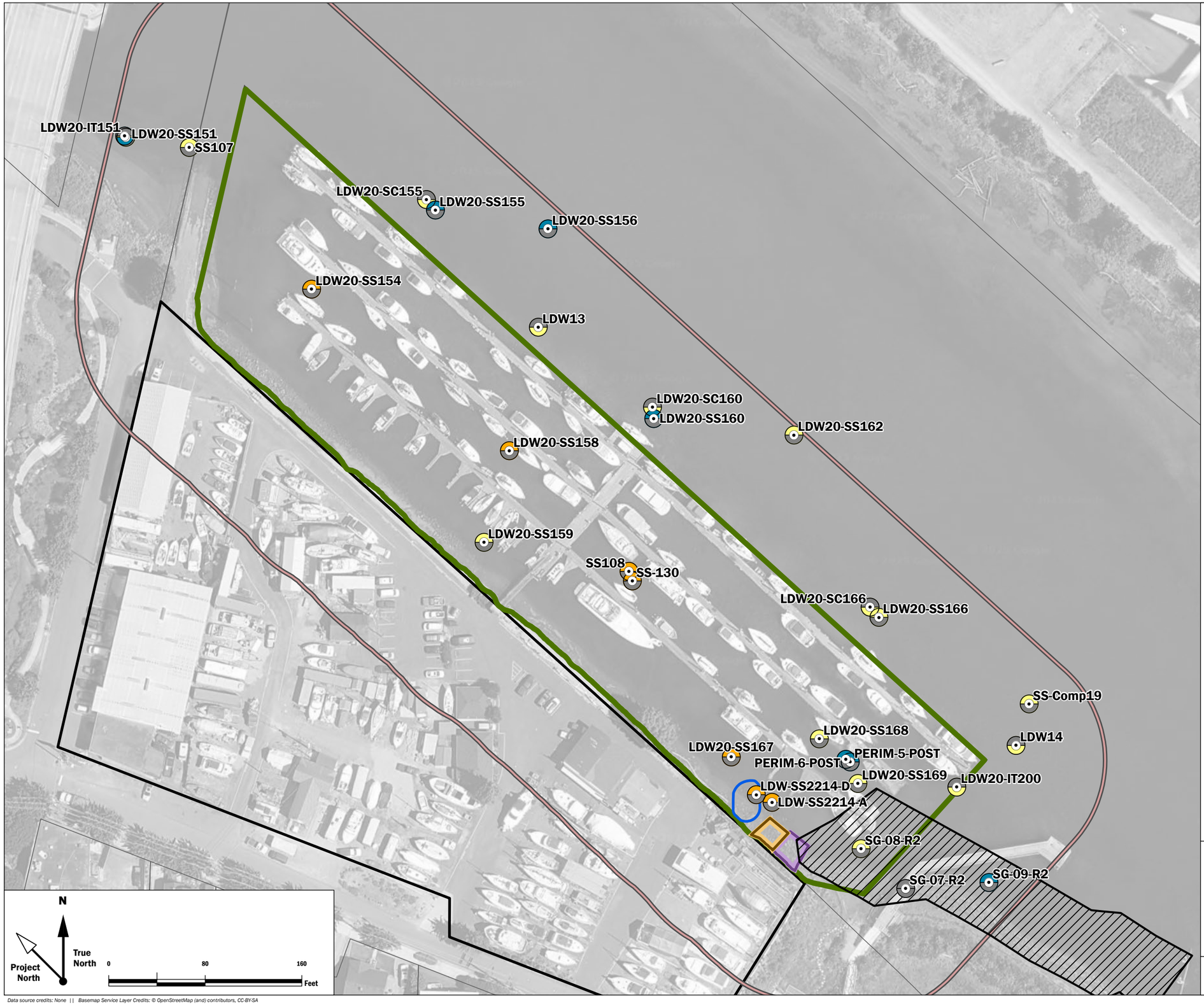
Notes:

COC - contaminant of concern
COPC - chemical of potential concern
SL - screening level
TOC Range - Total organic carbon range; 0.5 - 3.5% is the standard TOC range for the LDW
LDW - Lower Duwamish Waterway
PCB - polychlorinated biphenyls
(1) - Refer to text for basis of Selected Screening Level
Surface samples are those collected from 0 to 10 centimeters in depth.
Subsurface samples are any samples whose depth interval is greater than 10 centimeters in depth, including some samples collected from 0 to greater than 10 centimeters in depth; e.g., 0 to 45 or 0 to 60 centimeter depth intervals.
Gray Shading - Indicates the maximum concentration of an Initial COPC exceeds the Selected SL, and the Initial COPC is retained for further evaluation.

mg/kg - milligrams per kilogram, dry weight
mg/kg-OC - milligrams per kilogram, normalized for organic carbon content (OC normalized)
ND = 0 - Calculated using zero for nondetected components.
ND = 1/2 RDL - Calculated using one-half the reporting limit for nondetected components.
TEQ - toxic equivalency

APPENDIX H

FIGURES



Data source credits: None || Basemap Service Layer Credits: © OpenStreetMap (and) contributors, CC-BY-SA

- Sediment Location (Marina)
- Arsenic detected at a concentration greater than the RAL
- Arsenic detected at a concentration greater than SCUM NB but less than the RAL
- Arsenic detected at a concentration greater than the Selected SL but less than SCUM NB
- Arsenic not detected and non-detect value greater than the Selected SL
- Arsenic not detected or detected at a concentration less than the Selected SL
- Analyte not sampled in surface or subsurface sediment at this location
- Marina Basin
- Marina Basin 100-ft Buffer
- Marina Removal Area - Vactor Removal of Interstitial Sediment between Rip Rap
- Expanded Marina Removal Area - Vactor Removal of Interstitial Sediment between Rip Rap
- Upper Reach Sediment Management Area 13 (Anchor and Windward, 2024)
- T-117 Dredge Unit 3 - Dredged
- SPM Property Boundary
- King County Tax Parcel

Surface Result

Subsurface Result

Notes:
- Selected SL - The Selected Screening Level (SL) for Arsenic in both surface and subsurface sediment is set at the minimum Lower Duwamish Waterway Record of Decision (LDW ROD) Cleanup Levels (CULs), which is set at the background level (7 mg/kg) for Remedial Action Objective (RAO) 2, human direct contact.
- SCUM NB - Natural Background (NB) for marine sediment as established in the Sediment Cleanup User's Manual (SCUM), Table 10-1 (11 mg/kg).
- RAL - The Remedial Action Level (RAL) established in the Lower Duwamish Waterway Record of Decision for Arsenic in surface sediment, for Recovery Category 2, 0 to 10 centimeters (intertidal zones), for the protection of benthic macroinvertebrates (57 mg/kg). This value is set at the benthic Sediment Cleanup Objective (SCO) as established in the SCUM (Table 8-1).

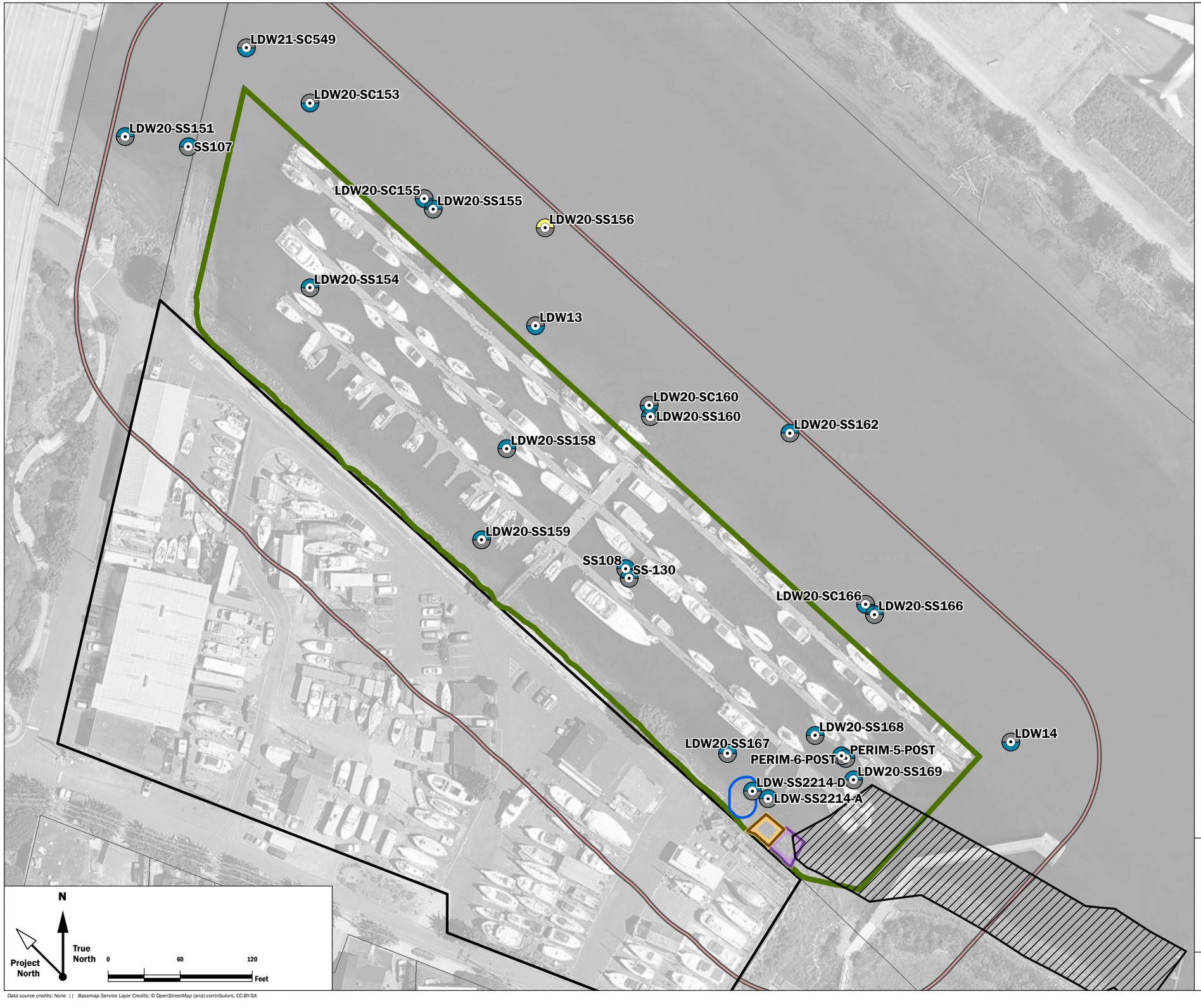
Arsenic		
Depth	**Basis**	**Concentration (mg/kg)**
Surface and Subsurface	Selected SL (Min. ROD CUL)	7
	SCUM NB	11
	RAL	57

Arsenic Analytical Data in Sediment, Refined Dataset

Remedial Investigation Report
South Park Marina
8604 Dallas Avenue South
Seattle, Washington

Aspect Consulting	APR-2025	BY: AJY / NLK	FIGURE NO. H.1
	PROJECT NO. 190293	REVISED BY: HMD	

GIS Path: G:\projects\SouthParkMarina_190293\Phase 2 PH Pro\SPM_Phase2_Report_H.1 Arsenic Analytical Data in Sediment, Refined Dataset.mxd || User: haley.dutton || Print Date: 4/8/2025



Data source credits: None || Basemap Service Layer Credits: © OpenStreetMap (and) contributors, CC-BY-SA

Sediment Location (Marina)

Mercury detected at a concentration greater than 10 times the RAL

Mercury detected at a concentration greater than the RAL but less than 10 times the RAL

Mercury detected a concentration greater than the Selected SL but less than the RAL

Mercury not detected and non-detect value greater than the Selected SL

Mercury not detected or detected at a concentration less than the Selected SL

Analyte not sampled in surface or subsurface sediment at this location

Marina Basin

Marina Basin 100-ft Buffer

Marina Removal Area - Vactor Removal of Interstitial Sediment between Rip Rap

Expanded Marina Removal Area - Vactor Removal of Interstitial Sediment between Rip Rap

Upper Reach Sediment Management Area 13 (Anchor and Windward, 2024)

T-117 Dredge Unit 3 - Dredged

SPM Property Boundary

King County Tax Parcel

Surface Result

Subsurface Result

Notes:
- Selected SL - The Selected Screening Level (SL) for Mercury in both surface and subsurface sediment is set at the minimum Lower Duwamish Waterway Record of Decision (LDW ROD) Cleanup Levels (CULs), which is for Remedial Action Objective (RAO) 3 – Ecological protection of benthic macroinvertebrates (0.41 mg/kg). This value is based on the benthic Sediment Cleanup Objective (SCO) chemical criteria in the Sediment Management Standards (SMS).
- RAL – The Remedial Action Level (RAL) established in the LDW ROD for Mercury in surface sediment, for Recovery Categories 2 and 3, 0 to 10 centimeters (intertidal zones), for the protection of benthic macroinvertebrates (0.82 mg/kg). This value is set at two times the benthic SCO.

Mercury		
Depth	**Basis**	**Concentration (mg/kg)**
Surface and Subsurface	Selected SL (Min. ROD CUL)	0.41
	RAL	0.82

Mercury Analytical Data in Sediment, Refined Dataset

Remedial Investigation Report
South Park Marina
8604 Dallas Avenue South
Seattle, Washington

Aspect Consulting	APR-2025	BY: AJY / NLK	FIGURE NO. H.2
	PROJECT NO. 190293	REVISED BY: HMD	

GIS Path: G:\projects\SouthParkMarina_190293\Phase 2 PH Pro\SPM_Phase2_Rdgnm\H.2 Mercury Analytical Data in Sediment, Refined Dataset.mxd | User: haleyjulian | | Print Date: 4/8/2025



Sediment Location (Marina)

TBT detected at a concentration greater than 10 times the East Waterway RBTC

TBT detected at a concentration greater than the East Waterway RBTC but less than 10 times the East Waterway RBTC

TBT detected at a concentration greater than the Selected SL but less than the East Waterway RBTC

TBT not detected and non-detect value greater than the Selected SL

TBT not detected or detected at a concentration less than the Selected SL

TBT not sampled in either surface or subsurface sediment at this location

Marina Basin

Marina Basin 100-ft Buffer

Marina Removal Area - Vactor Removal of Interstitial Sediment between Rip Rap

Expanded Marina Removal Area - Vactor Removal of Interstitial Sediment between Rip Rap

Upper Reach Sediment Management Area 13 (Anchor and Windward, 2024)

T-117 Dredge Unit 3 - Dredged

SPM Property Boundary

King County Tax Parcel

Surface Result

Subsurface Result

Notes:
- Selected SL - The Selected Screening Level (SL) for TBT in both surface and subsurface sediment is set at the minimum Sediment Management Standard (SMS) Sediment Cleanup Objective (SCO) for bioaccumulatives, which in the absence of a risk-based concentration is set at the Practical Quantitation Limit (PQL) of 0.0021 mg/kg.
- East Waterway RBTC - The Risk-Based Threshold Concentration (RBTC) developed for the East Waterway Superfund Site, which is immediately downstream of the Lower Duwamish Water (LDW) Superfund Site.

TBT		
Depth	**Basis**	**Concentration (mg/kg)**
Surface and Subsurface	Selected SL (SMS SCO)	0.0021
	East Waterway RBTC	0.14

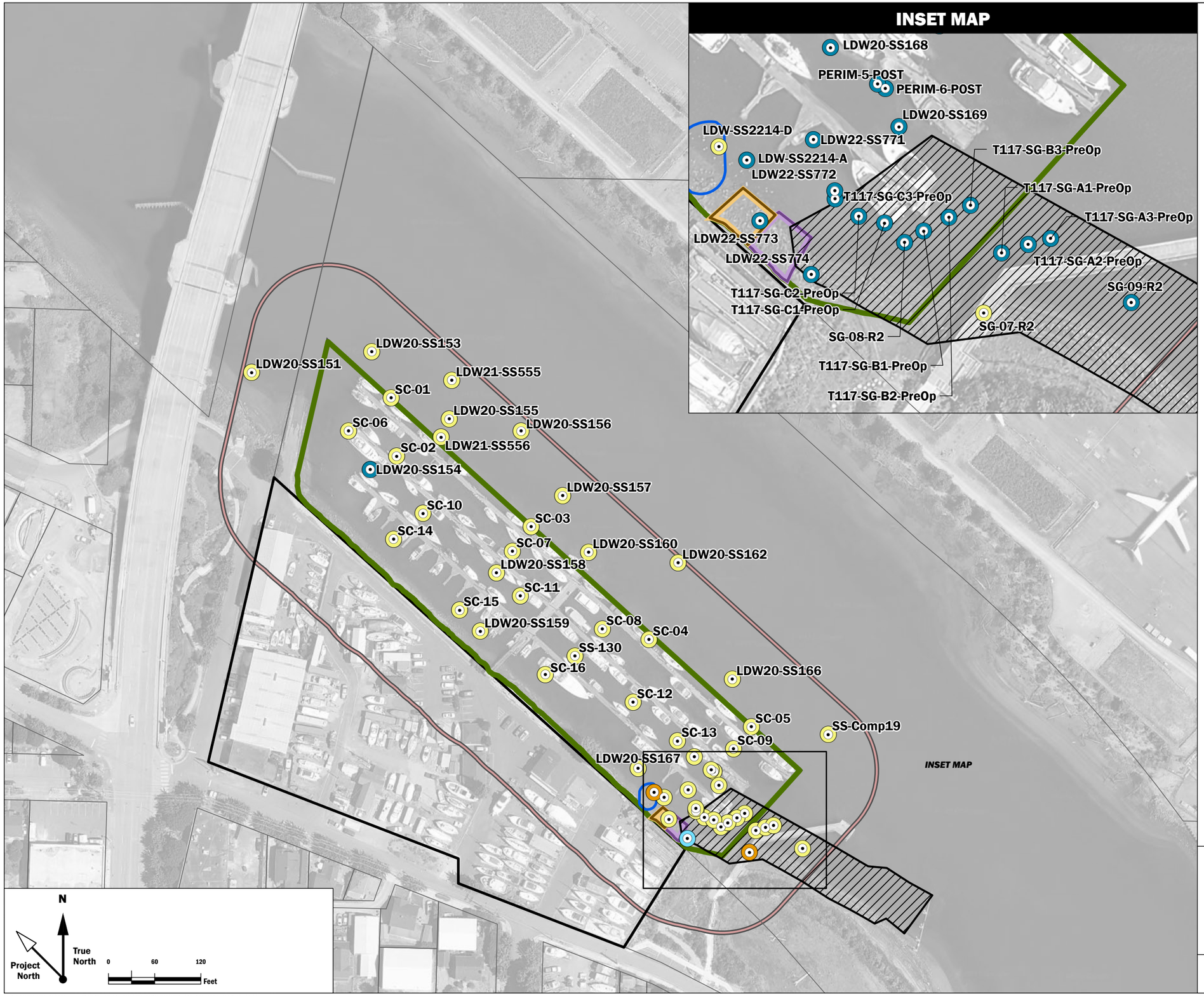
TBT Analytical Data in Sediment, Full Dataset

Remedial Investigation Report
South Park Marina
8604 Dallas Avenue South
Seattle, Washington

Aspect Consulting	APR-2025	BY: AJY / NLK	FIGURE NO. H.3
	PROJECT NO. 190293	REVISED BY: HMD	

Data source credits: None | | Basemap Service Layer Credits: © OpenStreetMap (and) contributors, CC-BY-SA

GIS Path: G:\projects\SouthParkMarina_180293\Phase 2 PH Pro\SPM_Phase2_Report H.3 TBT Analytical Data in Sediment, Full Dataset || User: haley.dumm || Print Date: 4/8/2025



Data source credits: None || Basemap Service Layer Credits: © OpenStreetMap (and) contributors, CC-BY-SA

- Sediment Location (Marina)
- Total PCBs detected at a concentration greater than RAO 2
- Total PCBs detected at a concentration greater than the RAL but less than RAO 2
- Total PCBs detected at a concentration greater than the Selected SL but less than the RAL
- Total PCBs not detected and non-detect value greater than the Selected SL
- Total PCBs not detected or detected at a concentration less than the Selected SL
- Marina Basin
- Marina Basin 100-ft Buffer
- Marina Removal Area - Vactor Removal of Interstitial Sediment between Rip Rap
- Expanded Marina Removal Area - Vactor Removal of Interstitial Sediment between Rip Rap
- Upper Reach Sediment Management Area 13 (Anchor and Windward, 2024)
- T-117 Dredge Unit 3 - Dredged
- SPM Property Boundary
- King County Tax Parcel

Surface Result

Subsurface Result

Notes:
- Selected SL - The Selected Screening Level (SL) for Total PCBs in surface sediment is set at the minimum Lower Duwamish Waterway (LDW) Record of Decision (ROD) Cleanup Levels (CULs), which is for Remedial Action Objective (RAO) 1 – human consumption of seafood and is based on a derived background concentration (0.002 mg/kg).
- RAL – The Remedial Action Level (RAL) established in the LDW ROD for Total PCBs in surface sediment, for Recovery Categories 2 and 3, 0 to 10 centimeters (intertidal zones), for the protection of benthic macroinvertebrates. This value is the same as the ROD CUL for RAO 3 - protection of benthic macroinvertebrates. Samples within the accepted TOC range of 0.5-3.5% were compared to the organic carbon normalized concentration (12 mg/kg-OC). Samples outside this TOC range were compared to the dry weight equivalent concentratoin (0.13 mg/kg).
- RAO 2 - Protection for human direct contact in clamming areas (0.50 mg/kg)
- Total PCBs - Total polychlorinated biphenyls, sum of Aroclors or sum of Congeners, with non-detects summed as zero.

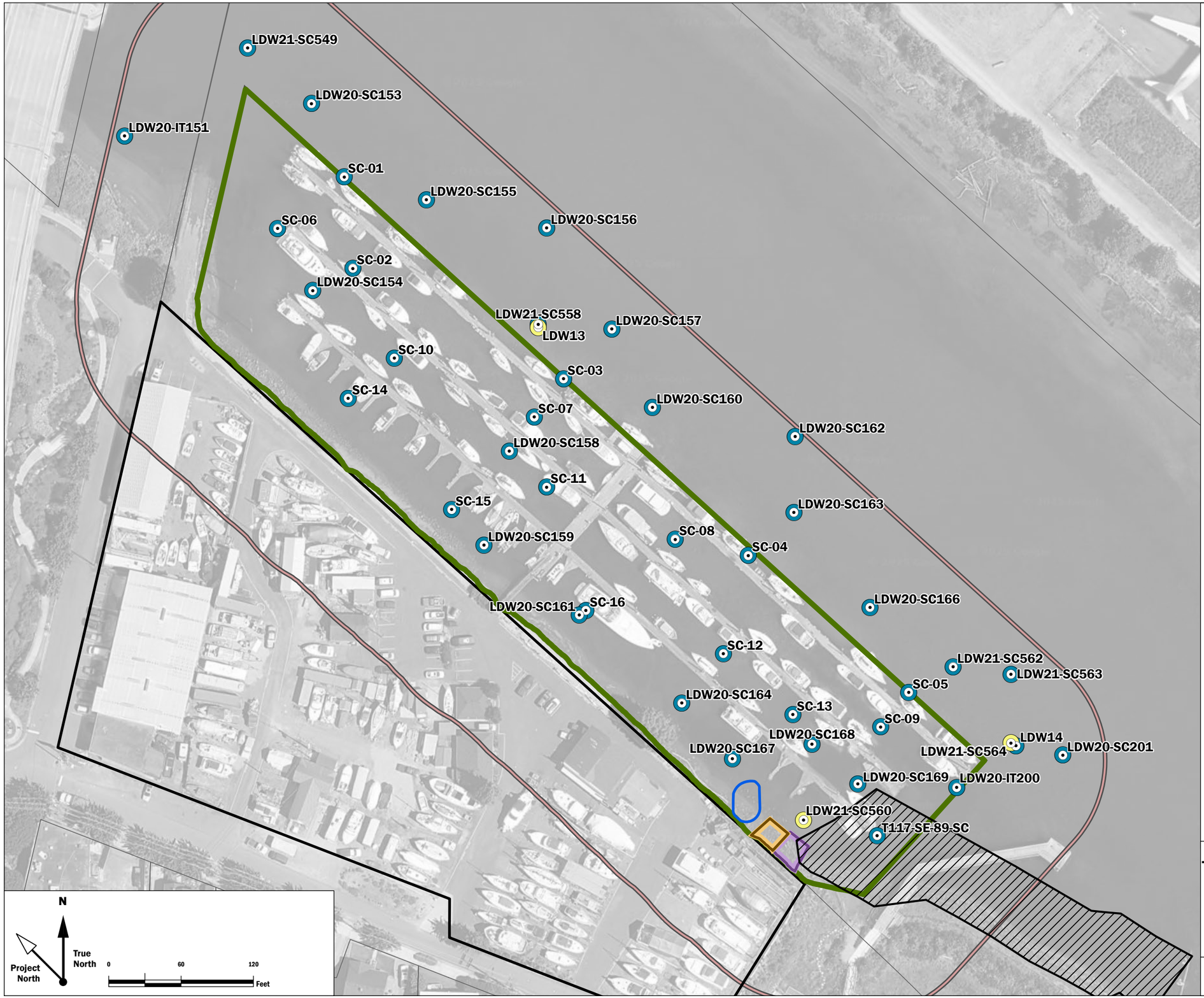
PCB		
Depth	**Basis**	**Concentration (mg/kg)**
Surface	Selected SL (Min. ROD CUL)	0.002
	RAL	12 OC or 0.13
	RAO 2	0.50

Total PCBs Analytical Data in Surface Sediment, Refined Dataset

Remedial Investigation Report
South Park Marina
8604 Dallas Avenue South
Seattle, Washington

Aspect Consulting	APR-2025	BY: AJY / NLK	FIGURE NO. H.4.A
	PROJECT NO. 190293	REVISED BY: HMD	

GIS Path: G:\projects\SouthParkMarina_190293\Phase 2 RI Pro\SPM_Phase2_RI_Figs\H.4.A Total PCBs in Surface Sediment_Refined Dataset\ | User: haley.durum | | Print Date: 4/29/2025



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Sediment Location (Marina)

Total PCBs detected at a concentration greater than 100 times the Selected SL

Total PCBs detected at a concentration greater than 10 times the Selected SL but less than 100 times the Selected SL

Total PCBs detected a concentration greater than the Selected SL but less than 10 times the Selected SL

Total PCBs not detected and non-detect value greater than the Selected SL

Total PCBs not detected or detected at a concentration less than the Selected SL

Marina Basin

Marina Basin 100-ft Buffer

Marina Removal Area - Vactor Removal of Interstitial Sediment between Rip Rap

Expanded Marina Removal Area - Vactor Removal of Interstitial Sediment between Rip Rap

Upper Reach Sediment Management Area 13 (Anchor and Windward, 2024)

T-117 Dredge Unit 3 - Dredged

SPM Property Boundary

King County Tax Parcel

Surface Result

Subsurface Result

Notes:
- Selected SL - The Selected Screening Level for Total PCBs in subsurface sediment is set at the lowest value for Remedial Action Objective (RAO) 2 – direct contact for human health, which is based on clamming areas (0.5 mg/kg).
- Total PCBs - Total polychlorinated biphenyls, sum of Aroclors or sum of Congeners, with non-detects summed as zero.

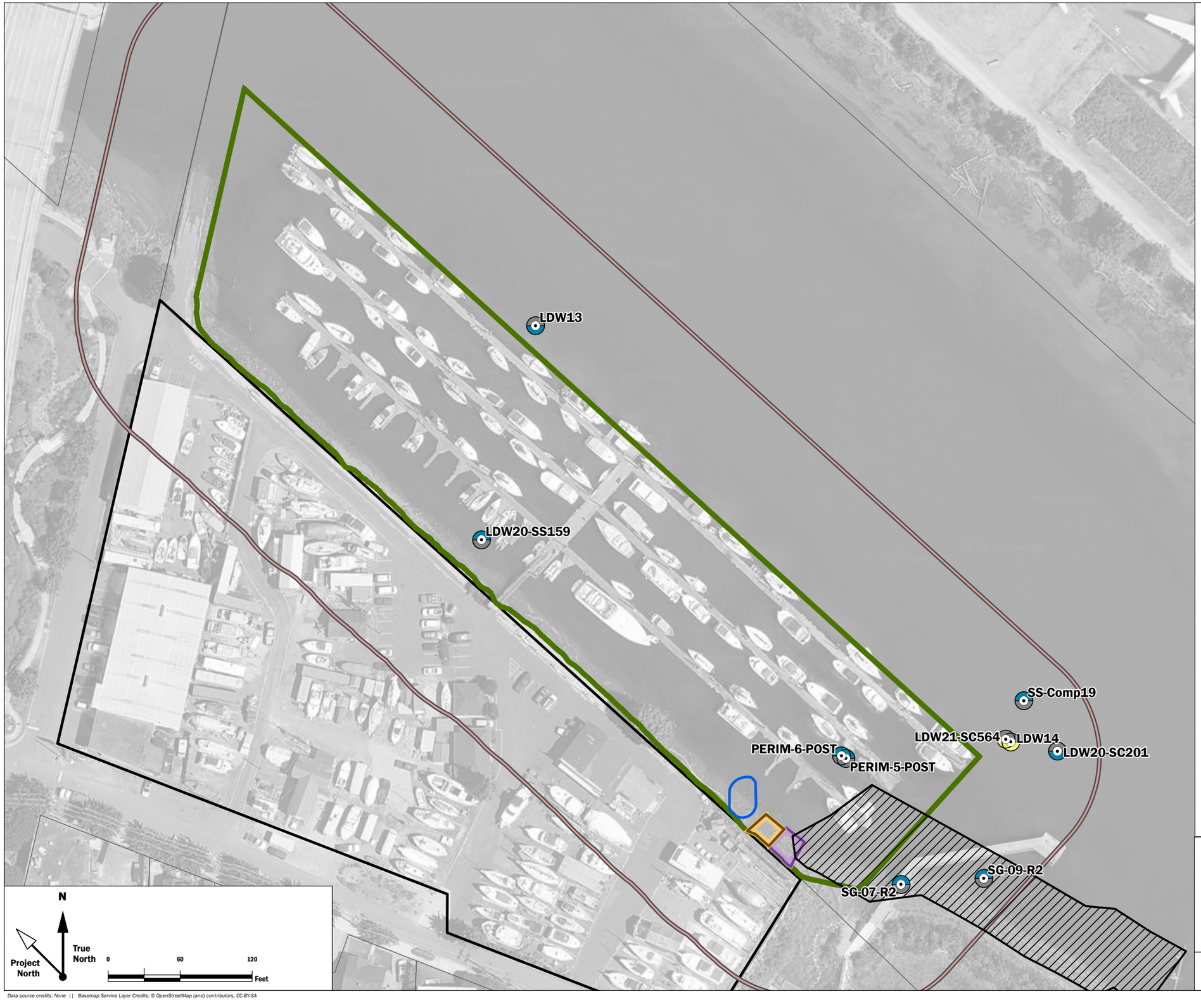
PCB		
Depth	**Basis**	**Concentration (mg/kg)**
Subsurface	Selected SL (RAO 2)	0.5

Total PCBs Analytical Data in Subsurface Sediment, Refined Dataset

Remedial Investigation Report
South Park Marina
8604 Dallas Avenue South
Seattle, Washington

Aspect Consulting	APR-2025	BY: AJY / NLK	FIGURE NO. H.4.B
	PROJECT NO. 190293	REVISED BY: ---/---	

GIS Path: G:\projects\SouthParkMarina_190293\Phase 2 RI Proj\SPM_Phase2_Re\gis\H.4.B Total PCBs in Subsurface Sediment_Refined Dataset.mxd | User: haleyduran | Print Date: 4/9/2025



Sediment Location (Marina)

Total Dioxin/Furan TEQ detected at a concentration greater than 10 times the RAL

Total Dioxin/Furan TEQ detected at a concentration greater than the RAL but less than 10 times the RAL

Total Dioxin/Furan TEQ detected a concentration greater than the Selected SL but less than the RAL

Total Dioxin/Furan TEQ not detected and non-detect value greater than the Selected SL

Total Dioxin/Furan TEQ not detected or detected at a concentration less than the Selected SL

Analyte not sampled in surface or subsurface sediment at this location

Marina Basin

Marina Basin 100-ft Buffer

Marina Removal Area - Vactor Removal of Interstitial Sediment between Rip Rap

Expanded Marina Removal Area - Vactor Removal of Interstitial Sediment between Rip Rap

Upper Reach Sediment Management Area 13 (Anchor and Windward, 2024)

T-117 Dredge Unit 3 - Dredged

SPM Property Boundary

King County Tax Parcel

Surface Result

Subsurface Result

Notes:
- Selected SL, Surface - The Selected Screening Level (SL) for Total Dioxin/Furan TEQ in surface sediment is set at the minimum Lower Duwamish Waterway Record of Decision (ROD) Cleanup Levels (CULs), which is for Remedial Action Objective (RAO) 1 – consumption of seafood for human health (2E-06 mg/kg).
- RAL, Surface – The Remedial Action Level (RAL) established in the LDW ROD for Total Dioxin/Furan TEQ in surface sediment, for Recovery Categories 2 and 3, 0 to 10 centimeters (intertidal zones), for the protection of human health (2.5E-05 mg/kg).
- Selected SL, Subsurface - The Selected SL for Total Dioxin/Furan TEQ in subsurface sediment is set at the lowest value for RAO 2 – direct contact for human health, which is based on clamming areas (1.3E-05 mg/kg).
- Total Dioxin/Furan TEQ – Total dioxin/furan toxic equivalency, calculated using one-half the reporting limit for nondetected components.

Dioxin / Furan		
Depth	**Basis**	**Concentration (mg/kg)**
Surface	Selected SL (Min. ROD CUL)	0.000002
	RAL	0.000025
Subsurface	Selected SL (Min. ROD CUL)	0.000013

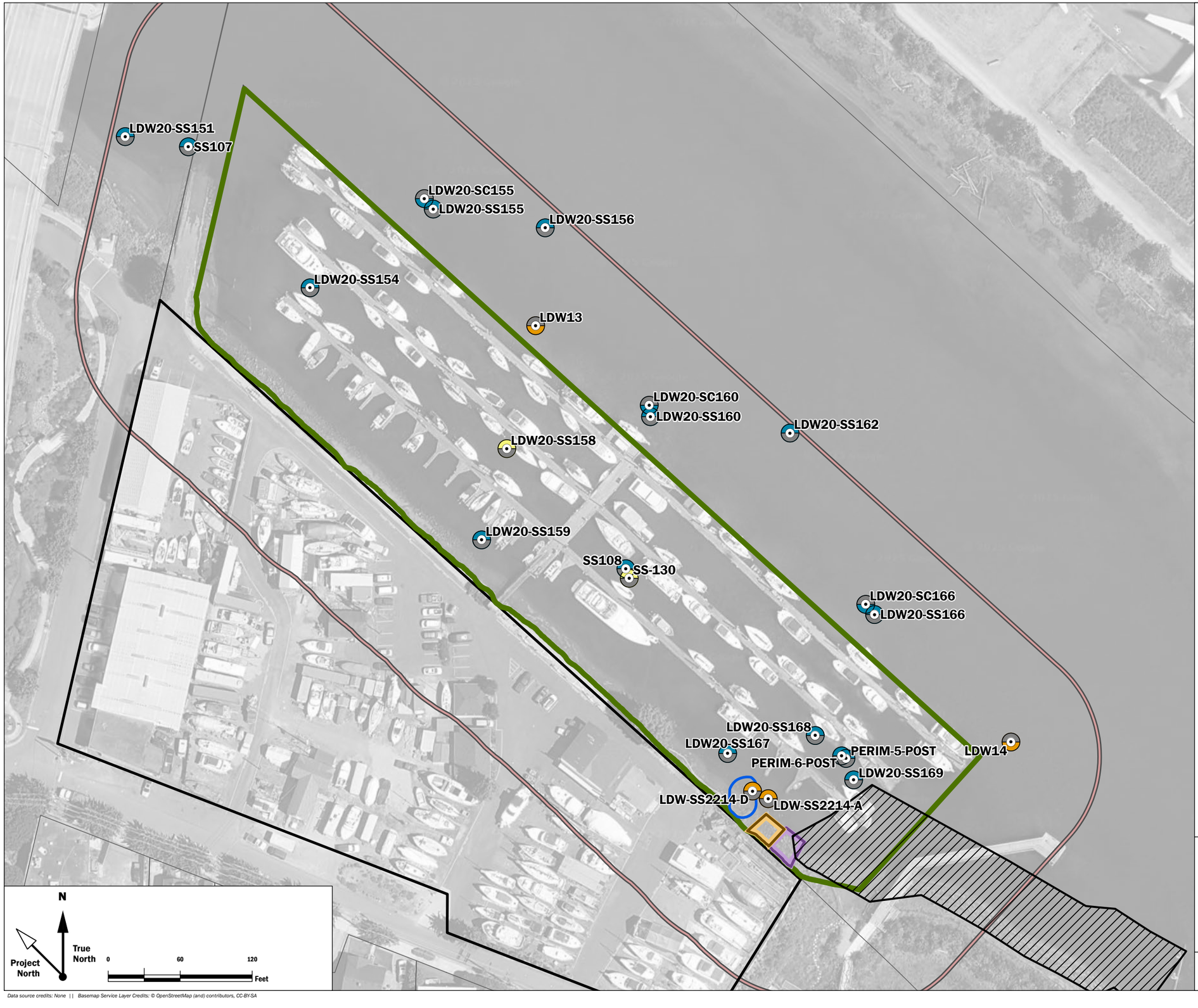
Dioxins/Furans Analytical Data in Sediment, Refined Dataset

Remedial Investigation Report
South Park Marina
8604 Dallas Avenue South
Seattle, Washington

Aspect Consulting	APR-2025	BY: AJY / NLK	FIGURE NO. H.5
	PROJECT NO. 190293	REVISED BY: HMD	

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GIS Path: G:\projects\SouthParkMarina_190293\Phase 2 PH Pro\SPM_Phase2_Report\H.5 Dioxin\Furans Analytical Data in Sediment, Refined Dataset || User: hilly-duran || Print Date: 4/9/2025



Data source credits: None || Basemap Service Layer Credits: © OpenStreetMap (and) contributors, CC-BY-SA

- Sediment Location (Marina)
- Benzyl Alcohol detected at a concentration greater than 10 times the RAL
- Benzyl Alcohol detected at a concentration greater than the RAL but less than 10 times the RAL
- Benzyl Alcohol detected a concentration greater than the Selected SL but less than the RAL
- Benzyl Alcohol not detected and non-detect value greater than the Selected SL
- Benzyl Alcohol not detected or detected at a concentration less than the Selected SL
- Analyte not sampled in surface or subsurface sediment at this location
- Marina Basin
- Marina Basin 100-ft Buffer
- Marina Removal Area - Vactor Removal of Interstitial Sediment between Rip Rap
- Expanded Marina Removal Area - Vactor Removal of Interstitial Sediment between Rip Rap
- Upper Reach Sediment Management Area 13 (Anchor and Windward, 2024)
- T-117 Dredge Unit 3 - Dredged
- SPM Property Boundary
- King County Tax Parcel

Surface Result

Subsurface Result

Notes:
- Selected SL - The Selected Screening Level (SL) for Benzyl Alcohol in both surface and subsurface sediment is set at the minimum Lower Duwamish Waterway Record of Decision (LDW ROD) Cleanup Levels (CULs), which is for Remedial Action Objective (RAO) 3 – Ecological protection of benthic macroinvertebrates (0.057 mg/kg). This value is based on the benthic Sediment Cleanup Objective (SCO) chemical criteria in the Sediment Management Standards (SMS).
- RAL – The Remedial Action Level (RAL) established in the LDW ROD for Benzyl Alcohol in surface sediment, for Recovery Categories 2 and 3, 0 to 10 centimeters (intertidal zones), for the protection of human health (0.114 mg/kg). This value is set at two times the benthic SCO.

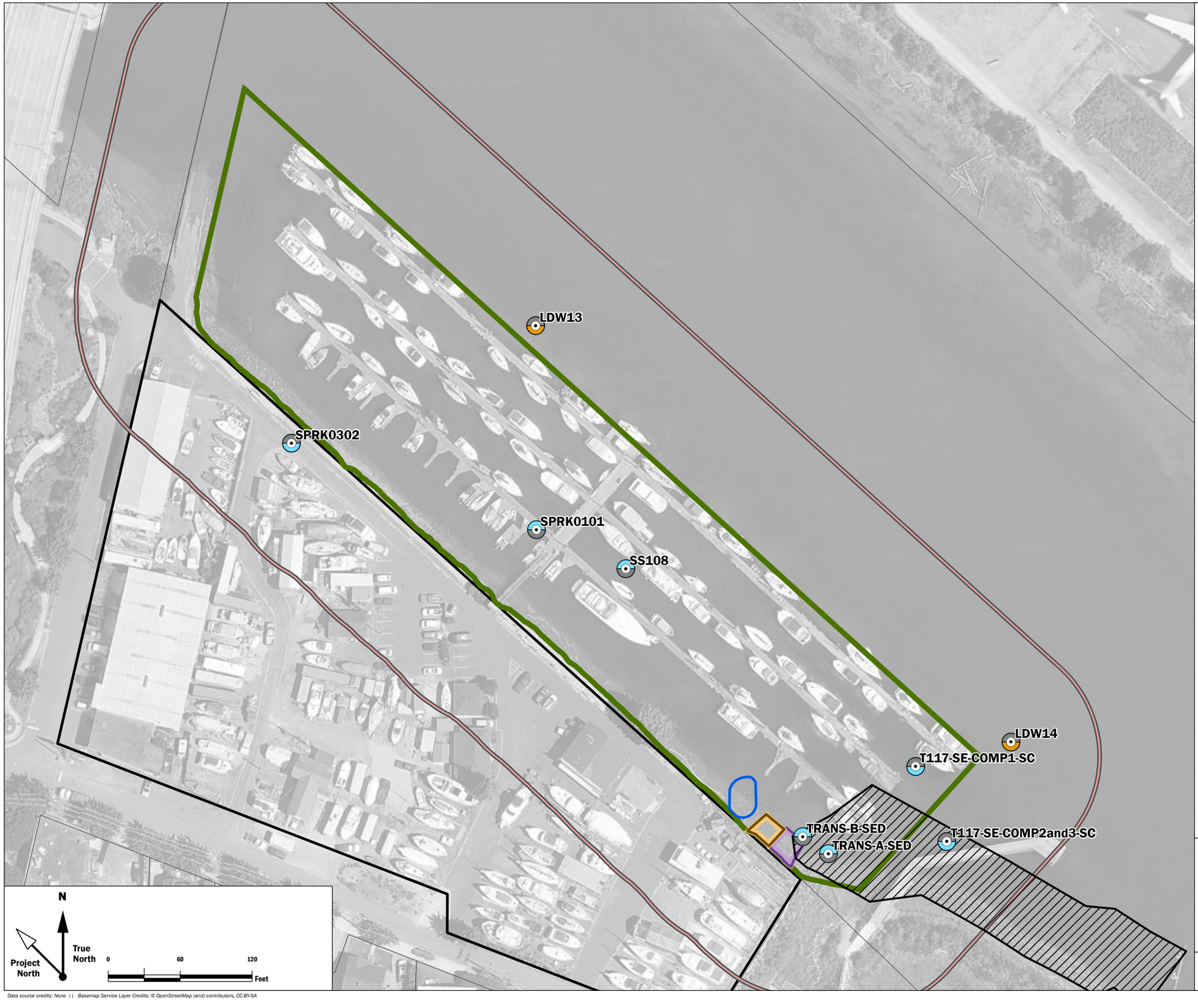
Benzyl Alcohol		
Depth	**Basis**	**Concentration (mg/kg)**
Surface and Subsurface	Selected SL (Min. ROD CUL)	0.057
	RAL	0.114

Benzyl Alcohol Analytical Data in Sediment, Refined Dataset

Remedial Investigation Report
South Park Marina
8604 Dallas Avenue South
Seattle, Washington

Aspect Consulting	APR-2025	BY: AJY / NLK	FIGURE NO. H.6
	PROJECT NO. 190293	REVISED BY: HMD	

GIS Path: G:\projects\SouthParkMarina_190293\Phase 2 PH Pro\SPM_Phase2_Re.aprx\H.6 Benzyl Alcohol Analytical Data in Sediment, Refined Dataset || User: hallg.duran || Print Date: 4/8/2025



Sediment Location (Marina)

4,4'-DDT detected at a concentration greater than 10 times the DMMP criteria

4,4'-DDT detected at a concentration greater than the DMMP criteria but less than 10 times the DMMP criteria

4,4'-DDT detected at a concentration greater than the Selected SL but less than the DMMP criteria

4,4'-DDT not detected and non-detect value greater than the Selected SL

4,4'-DDT not detected or detected at a concentration less than the Selected SL

Analyte not sampled in surface or subsurface sediment at this location

Marina Basin

Marina Basin 100-ft Buffer

Marina Removal Area - Vactor Removal of Interstitial Sediment between Rip Rap

Expanded Marina Removal Area - Vactor Removal of Interstitial Sediment between Rip Rap

Upper Reach Sediment Management Area 13 (Anchor and Windward, 2024)

T-117 Dredge Unit 3 - Dredged

SPM Property Boundary

King County Tax Parcel

Surface Result

Subsurface Result

Notes:
- Selected SL - The Selected Screening Level (SL) for 4,4'-DDT in both surface and subsurface sediment is set at the minimum Sediment Management Standard (SMS) Sediment Cleanup Objective (SCO) for bioaccumulatives, which in the absence of a risk-based concentration is set at the Practical Quantitation Limit (PQL) of 0.0001 mg/kg.
- DMMP - The risk-based Dredged Materials Management Program (DMMP) marine guidelines (0.012 mg/kg).

4,4' - DDT		
Depth	**Basis**	**Concentration (mg/kg)**
Surface and Subsurface	Selected SL (SMS SCO)	0.0001
	DMMP	0.012

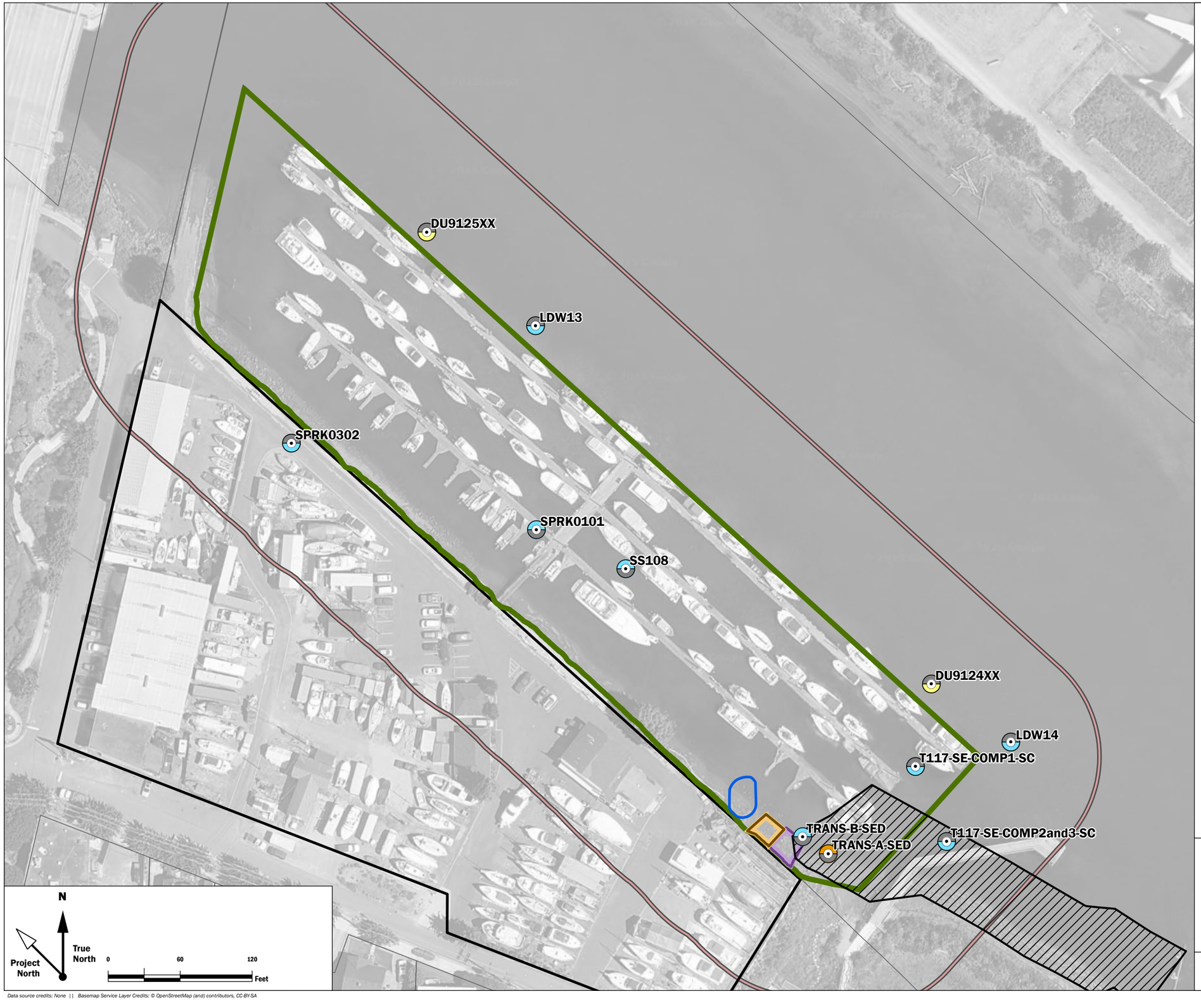
4,4'-DDT Analytical Data in Sediment, Full Dataset

Remedial Investigation Report
South Park Marina
8604 Dallas Avenue South
Seattle, Washington

Aspect Consulting	APR-2025	BY: AJY / NLK	FIGURE NO. H.7
	PROJECT NO. 190293	REVISED BY: HMD	

Data source credits: None || Basemap Service Layer Credits: © OpenStreetMap (and) contributors, CC-BY-SA

GIS Path: G:\projects\SouthParkMarina_190293\Phase 2 RI Pro\SPM_Phase2_Report\H.7 4,4'-DDT Analytical Data in Sediment.mxd | User: haileydriver | Print Date: 4/8/2025



Data source credits: None || Basemap Service Layer Credits: © OpenStreetMap (and) contributors, CC-BY-SA

- Sediment Location (Marina)
- Aldrin detected at a concentration greater than 10 times the DMMP criteria
- Aldrin detected at a concentration greater than the DMMP criteria but less than 10 times the DMMP criteria
- Aldrin detected at a concentration greater than the Selected SL but less than the DMMP criteria
- Aldrin not detected and non-detect value greater than the Selected SL
- Aldrin not detected or detected at a concentration less than the Selected SL
- Analyte not sampled in surface or subsurface sediment at this location
- Marina Basin
- Marina Basin 100-ft Buffer
- Marina Removal Area - Vactor Removal of Interstitial Sediment between Rip Rap
- Expanded Marina Removal Area - Vactor Removal of Interstitial Sediment between Rip Rap
- Upper Reach Sediment Management Area 13 (Anchor and Windward, 2024)
- T-117 Dredge Unit 3 - Dredged
- SPM Property Boundary
- King County Tax Parcel

Surface Result

Subsurface Result

Notes:
- Selected SL - The Selected Screening Level (SL) for Aldrin in both surface and subsurface sediment is set at the minimum Sediment Management Standard (SMS) Sediment Cleanup Objective (SCO) for bioaccumulatives, which in the absence of a risk-based concentration is set at the Practical Quantitation Limit (PQL) of 0.0001 mg/kg.
- DMMP - The risk-based Dredged Materials Management Program (DMMP) marine guidelines (0.0095 mg/kg).

Aldrin		
Depth	**Basis**	**Concentration (mg/kg)**
Surface and Subsurface	Selected SL (SMS SCO)	0.0001
	DMMP	0.0095

Aldrin Analytical Data in Sediment, Full Dataset

Remedial Investigation Report
South Park Marina
8604 Dallas Avenue South
Seattle, Washington

Aspect Consulting	APR-2025	BY: AJY / NLK	FIGURE NO. H.8
	PROJECT NO. 190293	REVISED BY: HMD	

GIS Path: G:\projects\SouthPark\Marina_190293\Phase 2 PH Pro\SPM_Phase2_Re.aprx: H.8 Aldrin Analytical Data in Sediment | | User: haley.doran | | Print Date: 4/9/2025

APPENDIX I

Upland Media Analytical Data and Data Screening

APPENDIX I.1

Summary of Detections in Upland Media

Table I.1. Summary of Detected Analytes and Analytes Not Retained for Further Evaluation

South Park Marina Site, Seattle, Washington

	Detections in Upland Media			Not Detected or Retained For Further Evaluation
	Groundwater	Vadose Soil	Saturated Soil	
Metals, Total				
Arsenic	X	X	X	
Barium	X	X	X	
Cadmium	X	X	X	
Chromium	X	X	X	
Copper	X	X	X	
Lead	X	X	X	
Mercury	X	X	X	
Nickel	X	X	X	
Selenium		X	X	
Silver		X	X	
Zinc	X	X	X	
Butyl Tins				
Dibutyltin Ion	X	X	X	
Monobutyltin	X	X	X	
Tetrabutyltin				Not Retained
Tributyltin Ion		X	X	
Polychlorinated Biphenyl (PCB) Aroclors				
Total PCB Aroclors (ND = 0)	X	X	X	
Polychlorinated Biphenyl (PCB) Congeners				
Total PCB Congeners (ND = 0)	X	X	X	
Total PCB TEQ (ND = 0)	X	X	X	
Dioxins/Furans				
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	X	X	X	
2,3,7,8-TCDD	X	X	X	
Polycyclic Aromatic Hydrocarbons (PAHs)				
1-Methylnaphthalene	X	X	X	
2-Methylnaphthalene	X	X	X	
Acenaphthene	X	X	X	
Acenaphthylene	X	X	X	
Anthracene	X	X	X	
Benzo(g,h,i)perylene	X	X	X	
Fluoranthene	X	X	X	
Fluorene	X	X	X	
Naphthalene	X	X	X	
Phenanthrene	X	X	X	
Pyrene	X	X	X	
Benz(a)anthracene	X	X	X	
Benzo(a)pyrene	X	X	X	
Benzo(b)fluoranthene	X	X	X	
Benzo(j)fluoranthene		X	X	
Benzo(j,k)fluoranthene		X	X	
Benzo(k)fluoranthene	X	X	X	
Chrysene	X	X	X	
Dibenzo(a,h)anthracene		X	X	
Indeno(1,2,3-cd)pyrene	X	X	X	
Total Benzofluoranthenes	X	X	X	
Total HPAHs (ND = 1/2 RDL)	X	X	X	
Total LPAHs (ND = 1/2 RDL)	X	X	X	
Total cPAHs TEQ (ND = 1/2 RDL)	X	X	X	
Semivolatile Organic Compounds (SVOCs)				
1,2-Dinitrobenzene				Not Retained
1,2-Diphenylhydrazine				Not Retained
1,3-Dinitrobenzene				Not Retained
1,4-Dinitrobenzene				Not Retained
2,3,4,6-Tetrachlorophenol				Not Retained
2,3,5,6-Tetrachlorophenol				Not Retained
2,3-Dichloroaniline				Not Retained
2,4,5-Trichlorophenol				Not Retained
2,4,6-Trichlorophenol		X		
2,4-Dichlorophenol				Not Retained
2,4-Dimethylphenol			X	
2,4-Dinitrophenol			X	
2,4-Dinitrotoluene				Not Retained
2,6-Dinitrotoluene				Not Retained
2-Chloronaphthalene				Not Retained
2-Chlorophenol				Not Retained
2-Methylphenol	X	X		
2-Nitroaniline				Not Retained
2-Nitrophenol				Not Retained
3 & 4 Methylphenol				Not Retained
3,3'-Dichlorobenzidine				Not Retained
3-Nitroaniline				Not Retained
4,6-Dinitro-2-methylphenol				Not Retained
4-Bromophenyl phenyl ether				Not Retained
4-Chloro-3-methylphenol				Not Retained
4-Chloroaniline				Not Retained
4-Chlorophenyl phenyl ether				Not Retained

Table I.1. Summary of Detected Analytes and Analytes Not Retained for Further Evaluation

South Park Marina Site, Seattle, Washington

	Detections in Upland Media			Not Detected or Retained For Further Evaluation
	Groundwater	Vadose Soil	Saturated Soil	
4-Methylphenol	X	X	X	
4-Nitroaniline		X		
4-Nitrophenol				Not Retained
Aniline				Not Retained
Benzoic acid	X	X	X	
Benzyl alcohol		X	X	
Benzyl butyl phthalate		X	X	
Bis(2-chloro-1-methylethyl) ether				Not Retained
Bis(2-chloroethoxy)methane				Not Retained
Bis(2-chloroethyl) ether				Not Retained
bis(2-Chloroisopropyl)ether				Not Retained
Bis(2-ethylhexyl) adipate				Not Retained
Bis(2-ethylhexyl) phthalate	X	X	X	
Carbazole	X	X	X	
Dibenzofuran	X	X	X	
Diethyl phthalate	X	X	X	
Dimethyl phthalate		X	X	
Di-n-butyl phthalate	X	X	X	
Di-n-octyl phthalate		X		
Hexachlorobenzene			X	
Hexachlorobutadiene			X	
Hexachlorocyclopentadiene				Not Retained
Hexachloroethane		X		
Isophorone		X	X	
Nitrobenzene		X		
N-Nitrosodimethylamine				Not Retained
N-Nitroso-di-n-propylamine				Not Retained
N-Nitrosodiphenylamine	X	X	X	
Pentachlorophenol		X	X	
Phenol	X	X	X	
Pyridine				Not Retained
Pesticides				
2,4'-DDD		X	X	
2,4'-DDE				Not Retained
2,4'-DDT	X	X	X	
4,4'-DDD		X	X	
4,4'-DDE	X	X	X	
4,4'-DDT	X	X	X	
Aldrin	X	X	X	
Alpha-BHC	X	X	X	
Beta-BHC				Not Retained
Chlordane				Not Retained
cis-Chlordane		X	X	
cis-Nonachlor				Not Retained
Delta-BHC			X	
Dieldrin	X	X	X	
Endosulfan I		X		
Endosulfan II				Not Retained
Endosulfan Sulfate				Not Retained
Endrin		X		
Endrin Aldehyde			X	
Endrin Ketone		X		
Heptachlor			X	
Heptachlor Epoxide			X	
Lindane				Not Retained
Methoxychlor				Not Retained
Mirex				Not Retained
Oxychlordane				Not Retained
Toxaphene				Not Retained
trans-Chlordane	X	X	X	
trans-Nonachlor				Not Retained
Total Petroleum Hydrocarbons (TPH)				
Gasoline Range Organics	X	X	X	
Diesel Range Organics	X	X	X	
Motor Oil Range Organics	X	X	X	
Diesel and Oil Extended Range Organics	X	X	X	
Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)				
Benzene	X	X	X	
Toluene	X	X	X	
Ethylbenzene	X	X	X	
Total Xylenes	X	X	X	
Volatile Organic Compounds (VOCs)				
1,1,1,2-Tetrachloroethane				Not Retained
1,1,1-Trichloroethane				Not Retained
1,1,2 - Trichlorotrifluoroethane				Not Retained
1,1,2,2-Tetrachloroethane				Not Retained
1,1,2-Trichloroethane		X		
1,1-Dichloroethane		X	X	

Table I.1. Summary of Detected Analytes and Analytes Not Retained for Further Evaluation

South Park Marina Site, Seattle, Washington

	Detections in Upland Media			Not Detected or Retained For Further Evaluation
	Groundwater	Vadose Soil	Saturated Soil	
1,1-Dichloroethene	X		X	
1,1-Dichloropropene				Not Retained
1,2,3-Trichlorobenzene				Not Retained
1,2,3-Trichloropropane		X		
1,2,4-Trichlorobenzene		X	X	
1,2,4-Trimethylbenzene	X	X	X	
1,2-Dibromo-3-chloropropane				Not Retained
1,2-Dibromoethane (EDB)				Not Retained
1,2-Dichlorobenzene	X	X	X	
1,2-Dichloroethane (EDC)				Not Retained
1,2-Dichloropropane				Not Retained
1,3,5-Trimethylbenzene		X	X	
1,3-Dichlorobenzene	X		X	
1,3-Dichloropropane				Not Retained
1,4-Dichloro-2-Butene				Not Retained
1,4-Dichlorobenzene	X	X	X	
2,2-Dichloropropane				Not Retained
2-Butanone		X	X	
2-Chloroethyl Vinyl Ether				Not Retained
2-Chlorotoluene				Not Retained
2-Hexanone				Not Retained
2-Pentanone		X		
4-Chlorotoluene				Not Retained
4-Methyl-2-pentanone		X		
Acetone	X	X	X	
Acrolein				Not Retained
Acrylonitrile				Not Retained
Bromobenzene				Not Retained
Bromochloromethane				Not Retained
Bromodichloromethane				Not Retained
Bromoform				Not Retained
Bromomethane		X	X	
Carbon Disulfide		X	X	
Carbon Tetrachloride				Not Retained
Chlorobenzene	X	X	X	
Chloroethane				Not Retained
Chloroform	X			
Chloromethane	X			
cis-1,2-Dichloroethene (DCE)	X	X	X	
cis-1,3-Dichloropropene				Not Retained
Dibromochloromethane				Not Retained
Dibromomethane				Not Retained
Dichlorodifluoromethane				Not Retained
Isopropylbenzene	X	X	X	
Methyl tert-butyl ether (MTBE)				Not Retained
Methylene Chloride	X	X	X	
Methyliodide				Not Retained
n-Butylbenzene	X	X	X	
n-Hexane				Not Retained
n-Propylbenzene	X	X	X	
p-Isopropyltoluene		X	X	
sec-Butylbenzene	X	X	X	
Styrene		X		
tert-Butylbenzene	X	X	X	
Tetrachloroethene (PCE)	X	X	X	
trans-1,2-Dichloroethene	X	X	X	
trans-1,3-Dichloropropene				Not Retained
Trichloroethene (TCE)	X	X	X	
Trichlorofluoromethane				Not Retained
Vinyl Acetate				Not Retained
Vinyl Chloride	X	X	X	

Notes:

X = Analyte was detected in one or more samples

Blank = Analyte not detected or analyte was not analyzed

Total PCB Aroclors (ND = 0) are the sum of Aroclors available, with non-detects = 0, unless all Aroclors were not detected, in which case the Total PCB Aroclors concentration is shown as nondetect at the maximum RDL for any individual Aroclor.

RDL = Reported Detection Limit

Total PCB Congeners (ND=0) and Total PCB TEQ (ND=0) calculated using zero for nondetected components.

TEQ = Toxic Equivalency

cPAHs = carcinogenic polycyclic aromatic hydrocarbons: benzo(a)pyrene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene.

HPAHs = high molecular weight polycyclic aromatic hydrocarbons: fluoranthene, pyrene, benz(a)anthracene, chrysene, total benzofluoranthenes, benzo(a)pyrene, indeno(1,2,3,-c,d)pyrene, dibenzo(a,h)anthracene, and benzo(g,h,i)perylene.

LPAHs = low molecular weight polycyclic aromatic hydrocarbons: naphthalene, acenaphthylene, acenaphthene, fluorene, phenanthrene, and anthracene.

Total Dioxin/Furan TEQ (ND = 1/2 RDL), Total LPAHs (ND = 1/2 RDL), Total HPAHS (ND = 1/2 RDL), and Total cPAH TEQ (ND = 1/2 RDL) are calculated using one-half the RDL for nondetected components.

APPENDIX I.2

Derivation of Preliminary RI SLs - Tables I.2.A through I.2.D - Groundwater, Vadose and Saturated Soil, Soil Gas, and Indoor Air

Table I.2.A. Derivation of Preliminary RI SLs - Groundwater

South Park Marina Site, Seattle, Washington

	Preliminary RI SL		GW-2	GW-3	GW-4	VI	GW-5
Chemical (all concentrations in ug/L)	**Most Stringent PCUL Nonpotable Water GW #s 2-5**	**Source**	**Protect Surface Water SW**	**Protect Sediment Partit**	**Protect Indoor Air VI**	**TCE Short-Term Action Level for Cardiac Birth Defects Unrestricted VI Guidance**	**Natural Background**
Polychlorinated biphenyls (PCBs)							
Total PCB Aroclors	7.0E-06	GW-2	7.0E-06	1.3E-03	na	na	na
Total PCB congeners	7.0E-06	GW-2	7.0E-06	2.4E-03	na	na	na
Total PCB TEQ	4.4E-09	GW-2	4.4E-09	4.7E-07	na	na	na
Dioxins/Furans							
Total dioxin/furan TEQ	5.1E-09	GW-2	5.1E-09	4.2E-07	na	na	na
2,3,7,8-TCDD	5.1E-09	GW-2	5.1E-09	4.9E-06	na	na	na
Total chlorinated dioxins	na	na	na	na	na	na	na
Total chlorinated furans	na	na	na	na	na	na	na
Inorganics							
Ammonia	3.5E+01	GW-2	3.5E+01	na	na	na	na
Chloride	na	na	na	na	na	na	na
Cyanide, free	1.0E+00	GW-2	1.0E+00	na	na	na	na
Fluoride	na	na	na	na	na	na	na
Nitrate	na	na	na	na	na	na	na
Nitrite	na	na	na	na	na	na	na
Sulfate	na	na	na	na	na	na	na
Sulfide	na	na	na	na	na	na	na
Metals							
Aluminum	na	na	na	na	na	na	na
Antimony	9.0E+01	GW-2	9.0E+01	na	na	na	na
Arsenic	8.0E+00	GW-5	1.3E-02	2.2E+02	na	na	8.0E+00
Barium	2.0E+02	GW-2	2.0E+02	na	na	na	na
Beryllium	7.6E+01	GW-2	7.6E+01	na	na	na	na
Cadmium	1.2E+00	GW-3	7.9E+00	1.2E+00	na	na	na
Chromium, total	na	na	na	na	na	na	na
Chromium, trivalent	2.7E+01	GW-2	2.7E+01	na	na	na	na
Chromium, hexavalent	1.1E-01	GW-2	1.1E-01	na	na	na	na
Cobalt	na	na	na	na	na	na	na
Copper	3.1E+00	GW-2	3.1E+00	1.4E+01	na	na	na
Iron	na	na	na	na	na	na	na
Lead	8.1E+00	GW-2	8.1E+00	1.9E+01	na	na	na
Manganese	1.0E+02	GW-2	1.0E+02	na	na	na	na
Mercury, inorganic	2.5E-02	GW-2	2.5E-02	2.0E+00	8.3E-01	na	na
Methylmercury	na	na	na	na	na	na	na
Molybdenum	na	na	na	na	na	na	na
Nickel	8.2E+00	GW-2	8.2E+00	na	na	na	na
Selenium	7.1E+01	GW-2	7.1E+01	na	na	na	na
Silver	9.1E-01	GW-2	9.1E-01	5.5E+01	na	na	na
Thallium	6.2E-02	GW-2	6.2E-02	na	na	na	na
Tin	na	na	na	na	na	na	na
Vanadium	na	na	na	na	na	na	na
Zinc	8.1E+01	GW-2	8.1E+01	7.7E+02	na	na	na
Metals - Butyltins							
Monobutyltin	na	na	na	na	na	na	na
Dibutyltin	na	na	na	na	na	na	na
Trybutyl tin	7.4E-03	GW-2	7.4E-03	na	na	na	na
Tributyltin oxide	4.3E-06	GW-3	na	4.3E-06	na	na	na
Tetrabutyltin	na	na	na	na	na	na	na
Polycyclic Aromatic Hydrocarbons (PAHs)							
Acenaphthene	5.3E+00	GW-3	3.0E+01	5.3E+00	na	na	na
Acenaphthylene	na	na	na	na	na	na	na
Anthracene	2.1E+00	GW-3	1.0E+02	2.1E+00	na	na	na
Benzo(a)anthracene	1.6E-04	GW-2	1.6E-04	1.9E-01	na	na	na
Benzo(b)fluoranthene	1.6E-04	GW-2	1.6E-04	na	na	na	na
Benzo(k)fluoranthene	1.3E-03	GW-2	1.3E-03	na	na	na	na
Total benzofluoranthenes	na	na	na	na	na	na	na
Benzo(g,h,i)perylene	na	na	na	na	na	na	na
Benzo(a)pyrene	1.6E-05	GW-2	1.6E-05	8.7E-02	na	na	na
Chrysene	1.6E-02	GW-2	1.6E-02	4.0E-01	na	na	na
Dibenz(a,h)anthracene	1.6E-05	GW-2	1.6E-05	6.8E-03	na	na	na
Dibenzofuran	3.1E+00	GW-3	na	3.1E+00	na	na	na
Fluoranthene	1.8E+00	GW-3	6.0E+00	1.8E+00	na	na	na
Fluorene	3.7E+00	GW-3	1.0E+01	3.7E+00	na	na	na
Indeno(1,2,3-cd)pyrene	1.6E-04	GW-2	1.6E-04	1.6E-02	na	na	na
Methyl isopropyl phenanthrene (retene)	na	na	na	na	na	na	na
1-Methylnaphthalene	1.7E-01	GW-4	na	na	1.7E-01	na	na
2-Methylnaphthalene	1.4E+01	GW-3	na	1.4E+01	na	na	na
Naphthalene	1.4E+00	GW-2	1.4E+00	9.0E+01	8.8E+00	na	na
Phenanthrene	na	na	na	na	na	na	na
Pyrene	2.0E+00	GW-3	8.0E+00	2.0E+00	na	na	na
Total LPAHs	na	na	na	na	na	na	na
Total HPAHs	na	na	na	na	na	na	na
Total PAHs	na	na	na	na	na	na	na
Total cPAH TEQ	1.6E-05	GW-2	1.6E-05	3.2E-02	na	na	na

Table I.2.A. Derivation of Preliminary RI SLs - Groundwater

South Park Marina Site, Seattle, Washington

	Preliminary RI SL		GW-2	GW-3	GW-4	VI	GW-5
Chemical (all concentrations in ug/L)	**Most Stringent PCUL Nonpotable Water GW #s 2-5**	**Source**	**Protect Surface Water SW**	**Protect Sediment Partit**	**Protect Indoor Air VI**	**TCE Short-Term Action Level for Cardiac Birth Defects Unrestricted VI Guidance**	**Natural Background**
Other Semivolatile Organic Compounds (SVOCs)							
Aniline	na	na	na	na	na	na	na
Azobenzene	na	na	na	na	na	na	na
Benzidine	2.3E-05	GW-2	2.3E-05	na	na	na	na
Benzoic acid	5.9E+02	GW-3	na	5.9E+02	na	na	na
Benzyl alcohol	5.6E+01	GW-3	na	5.6E+01	na	na	na
Bis(2-chloroethoxy)methane	na	na	na	na	na	na	na
Bis(2-chloroethyl)ether	6.0E-02	GW-2	6.0E-02	na	na	na	na
Bis(chloromethyl)ether	1.7E-02	GW-2	1.7E-02	na	na	na	na
Bis(2-chloro-1-methylethyl)ether	1.0E+02	GW-2	1.0E+02	na	na	na	na
2,6-Bis(1,1-dimethylethyl) phenol	na	na	na	na	na	na	na
Bis(2-ethylhexyl) phthalate	4.6E-02	GW-2	4.6E-02	6.2E-01	na	na	na
4-Bromophenyl phenyl ether	na	na	na	na	na	na	na
Butyl benzyl phthalate	1.3E-02	GW-2	1.3E-02	2.4E-01	na	na	na
Butyl diphenyl phosphate	na	na	na	na	na	na	na
Carbazole	na	na	na	na	na	na	na
4-Chloroaniline	na	na	na	na	na	na	na
4-Chloro-3-methylphenol (chlorocresol)	3.6E+01	GW-2	3.6E+01	na	na	na	na
2-Chloronaphthalene (beta-)	1.0E+02	GW-2	1.0E+02	na	na	na	na
2-Chlorophenol	1.7E+01	GW-2	1.7E+01	na	na	na	na
4-Chlorophenyl phenyl ether	na	na	na	na	na	na	na
Dibutyl phthalate	8.0E+00	GW-2	8.0E+00	4.6E+01	na	na	na
Dibutyl phenyl phosphate	na	na	na	na	na	na	na
1,2-Dichlorobenzene	4.5E+00	GW-3	8.0E+02	4.5E+00	2.5E+03	na	na
1,3-Dichlorobenzene	2.0E+00	GW-2	2.0E+00	na	na	na	na
1,4-Dichlorobenzene	5.0E+00	GW-4	6.0E+01	8.9E+00	5.0E+00	na	na
3,3'-Dichlorobenzidine	3.3E-03	GW-2	3.3E-03	na	na	na	na
2,4-Dichlorophenol	1.0E+01	GW-2	1.0E+01	na	na	na	na
Di(2-ethylhexyl)adipate	na	na	na	na	na	na	na
Diethyl phthalate	9.3E+01	GW-3	2.0E+02	9.3E+01	na	na	na
Dimethyl phthalate	5.9E+01	GW-3	6.0E+02	5.9E+01	na	na	na
2,4-Dimethylphenol	2.9E+00	GW-3	9.7E+01	2.9E+00	na	na	na
1,2-Dinitrobenzene	na	na	na	na	na	na	na
1,3-Dinitrobenzene	na	na	na	na	na	na	na
1,4-Dinitrobenzene	na	na	na	na	na	na	na
4,6-Dinitro-o-cresol (DNOC)	7.0E+00	GW-2	7.0E+00	na	na	na	na
2,4-Dinitrophenol	1.0E+02	GW-2	1.0E+02	na	na	na	na
2,4-Dinitrotoluene	1.8E-01	GW-2	1.8E-01	na	na	na	na
2,6-Dinitrotoluene	na	na	na	na	na	na	na
Di-n-octyl phthalate	2.3E+00	GW-3	na	2.3E+00	na	na	na
1,4-Dioxane	4.7E+03	GW-4	na	na	4.7E+03	na	na
1,2-Diphenylhydrazine	2.0E-02	GW-2	2.0E-02	na	na	na	na
Hexachlorobenzene	5.0E-06	GW-2	5.0E-06	1.4E-02	2.4E-01	na	na
Hexachlorobutadiene	1.0E-02	GW-2	1.0E-02	6.6E-01	6.4E-01	na	na
Hexachlorocyclopentadiene	1.0E+00	GW-2	1.0E+00	na	4.2E+00	na	na
Hexachloroethane	2.0E-02	GW-2	2.0E-02	na	3.8E+00	na	na
Isophorone	1.1E+02	GW-2	1.1E+02	na	na	na	na
2-Methoxynaphthalene	na	na	na	na	na	na	na
2-Methylphenol (o-cresol)	9.8E+00	GW-3	na	9.8E+00	na	na	na
3-Methylphenol (m-cresol)	na	na	na	na	na	na	na
4-Methylphenol (p-cresol)	1.1E+02	GW-3	na	1.1E+02	na	na	na
2-Nitroaniline	na	na	na	na	na	na	na
3-Nitroaniline	na	na	na	na	na	na	na
4-Nitroaniline	na	na	na	na	na	na	na
Nitrobenzene	1.0E+02	GW-2	1.0E+02	na	na	na	na
2-Nitrophenol	na	na	na	na	na	na	na
4-Nitrophenol	na	na	na	na	na	na	na
n-Nitrosodimethylamine	3.4E-01	GW-2	3.4E-01	na	na	na	na
n-Nitrosodiphenylamine	5.5E-01	GW-3	6.9E-01	5.5E-01	na	na	na
n-Nitrosodi-n-propylamine	5.8E-02	GW-2	5.8E-02	na	na	na	na
Pentachlorophenol	2.0E-03	GW-2	2.0E-03	8.6E-01	na	na	na
Phenol	1.0E+02	GW-3	7.0E+04	1.0E+02	na	na	na
Pyridine	na	na	na	na	na	na	na
2,3,4,5-Tetrachlorophenol	na	na	na	na	na	na	na
2,3,4,6-Tetrachlorophenol	na	na	na	na	na	na	na
1,2,4-Trichlorobenzene	3.7E-02	GW-2	3.7E-02	9.6E-01	3.9E+01	na	na
2,4,5-Trichlorophenol	6.0E+02	GW-2	6.0E+02	na	na	na	na
2,4,6-Trichlorophenol	2.8E-01	GW-2	2.8E-01	na	na	na	na

Table I.2.A. Derivation of Preliminary RI SLs - Groundwater

South Park Marina Site, Seattle, Washington

	Preliminary RI SL		GW-2	GW-3	GW-4	VI	GW-5
Chemical (all concentrations in ug/L)	**Most Stringent PCUL Nonpotable Water GW #s 2-5**	**Source**	**Protect Surface Water SW**	**Protect Sediment Partit**	**Protect Indoor Air VI**	**TCE Short-Term Action Level for Cardiac Birth Defects Unrestricted VI Guidance**	**Natural Background**
Volatile Organic Compounds (VOCs)							
Acetone	na	na	na	na	na	na	na
Acetaldehyde	6.2E+02	GW-4	na	na	6.2E+02	na	na
Acrolein	1.1E+00	GW-2	1.1E+00	na	2.9E+00	na	na
Acrylonitrile	2.8E-02	GW-2	2.8E-02	na	1.2E+01	na	na
Benzaldehyde	na	na	na	na	na	na	na
Benzene	1.6E+00	GW-2	1.6E+00	na	2.4E+00	na	na
Bromobenzene	6.3E+02	GW-4	na	na	6.3E+02	na	na
Bromochloromethane	na	na	na	na	na	na	na
Bromoethane	na	na	na	na	na	na	na
Bromoform	1.2E+01	GW-2	1.2E+01	na	2.2E+02	na	na
Bromomethane	1.1E+01	GW-4	2.7E+02	na	1.1E+01	na	na
2-Butoxyethanol (EGBE)	na	na	na	na	na	na	na
n-Butylbenzene	na	na	na	na	na	na	na
sec-Butylbenzene	na	na	na	na	na	na	na
tert-Butylbenzene	na	na	na	na	na	na	na
Carbon disulfide	8.4E+02	GW-4	na	na	8.4E+02	na	na
Carbon tetrachloride	3.5E-01	GW-2	3.5E-01	na	6.2E-01	na	na
Chlorobenzene	2.0E+02	GW-2	2.0E+02	na	3.4E+02	na	na
Chloroethane	1.5E+04	GW-4	na	na	1.5E+04	na	na
2-Chloroethyl vinyl ether	na	na	na	na	na	na	na
Chloroform	1.2E+00	GW-4	1.5E+02	na	1.2E+00	na	na
Chloromethane	1.5E+02	GW-4	na	na	1.5E+02	na	na
3-Chloro-1-propene (allyl chloride)	1.5E+00	GW-4	na	na	1.5E+00	na	na
2-Chlorotoluene	na	na	na	na	na	na	na
4-Chlorotoluene	na	na	na	na	na	na	na
Dibromochloromethane	2.2E+00	GW-2	2.2E+00	na	na	na	na
1,2-Dibromo-3-chloropropane	4.2E-02	GW-4	na	na	4.2E-02	na	na
Dibromomethane	9.7E+01	GW-4	na	na	9.7E+01	na	na
Dichlorobromomethane	1.4E+00	GW-4	2.8E+00	na	1.4E+00	na	na
trans-1,4-Dichloro-2-butene	na	na	na	na	na	na	na
Dichlorodifluoromethane	4.2E+00	GW-4	na	na	4.2E+00	na	na
1,1-Dichloroethane	1.1E+01	GW-4	na	na	1.1E+01	na	na
1,2-Dichloroethane (EDC)	3.5E+00	GW-4	7.3E+01	na	3.5E+00	na	na
1,1-Dichloroethylene	1.3E+02	GW-4	4.0E+03	na	1.3E+02	na	na
cis-1,2-Dichloroethylene	1.8E+02	GW-4	na	na	1.8E+02	na	na
trans-1,2-Dichloroethylene	7.7E+01	GW-4	1.0E+03	na	7.7E+01	na	na
1,2-Dichloroethylene (mixed isomers)	na	na	na	na	na	na	na
1,2-Dichloropropane	3.1E+00	GW-2	3.1E+00	na	1.0E+01	na	na
1,3-Dichloropropane	1.2E+00	GW-2	1.2E+00	na	na	na	na
2,2-Dichloropropane	na	na	na	na	na	na	na
1,1-Dichloropropene	na	na	na	na	na	na	na
cis-1,3-Dichloropropene	1.2E+00	GW-2	1.2E+00	na	8.0E+00	na	na
trans-1,3-Dichloropropene	1.2E+00	GW-2	1.2E+00	na	8.0E+00	na	na
Diisopropyl ether	na	na	na	na	na	na	na
Ethane	na	na	na	na	na	na	na
Ethylbenzene	2.1E+01	GW-2	2.1E+01	na	2.8E+03	na	na
Ethylene oxide	5.4E-02	GW-4	na	na	5.4E-02	na	na
Ethyl ether	na	na	na	na	na	na	na
Ethylene dibromide (EDB)	3.0E-01	GW-4	na	na	3.0E-01	na	na
Formaldehyde	na	na	na	na	na	na	na
n-Hexane	7.2E+00	GW-4	na	na	7.2E+00	na	na
2-Hexanone	7.3E+03	GW-4	na	na	7.3E+03	na	na
Isopropylbenzene (cumene)	9.1E+02	GW-4	na	na	9.1E+02	na	na
4-Isopropyltoluene (p-isopropyltoluene)	8.8E+01	GW-4	na	na	8.8E+01	na	na
Methane	na	na	na	na	na	na	na
Methyl ethyl ketone (2-butanone)	1.7E+06	GW-4	na	na	1.7E+06	na	na
Methyl iodide	na	na	na	na	na	na	na
Methyl isobutyl ketone	4.7E+05	GW-4	na	na	4.7E+05	na	na
Methyl tert-butyl ether (MTBE)	8.6E+02	GW-4	na	na	8.6E+02	na	na
Methylene chloride	1.0E+02	GW-2	1.0E+02	na	7.8E+02	na	na
2-Pentanone	na	na	na	na	na	na	na
n-Propylbenzene	2.3E+03	GW-4	na	na	2.3E+03	na	na
Styrene	8.5E+03	GW-4	na	na	8.5E+03	na	na
1,1,1,2-Tetrachloroethane	7.1E+00	GW-4	na	na	7.1E+00	na	na
1,1,2,2-Tetrachloroethane	3.0E-01	GW-2	3.0E-01	na	5.9E+00	na	na
Tetrachloroethylene (PCE)	2.9E+00	GW-2	2.9E+00	na	2.5E+01	na	na
Tetrahydrofuran	5.3E+05	GW-4	na	na	5.3E+05	na	na
Toluene	1.0E+02	GW-2	1.0E+02	na	1.5E+04	na	na
1,2,3-Trichlorobenzene	na	na	na	na	na	na	na
1,1,1-Trichloroethane	5.4E+03	GW-4	5.0E+04	na	5.4E+03	na	na
1,1,2-Trichloroethane	9.0E-01	GW-2	9.0E-01	na	5.1E+00	na	na
Trichloroethylene (TCE)	7.0E-01	GW-2	7.0E-01	na	1.4E+00	8.0E+00	na
Trichlorofluoroethane	na	na	na	na	na	na	na
Trichlorofluoromethane	1.2E+02	GW-4	na	na	1.2E+02	na	na
1,2,3-Trichloropropane	2.0E+01	GW-4	na	na	2.0E+01	na	na
Trichlorotrifluoroethane	1.7E+02	GW-4	na	na	1.7E+02	na	na
1,2,3-Trimethylbenzene	4.1E+02	GW-4	na	na	4.1E+02	na	na
1,2,4-Trimethylbenzene	2.4E+02	GW-4	na	na	2.4E+02	na	na
1,3,5-Trimethylbenzene	1.7E+02	GW-4	na	na	1.7E+02	na	na
Vinyl acetate	8.1E+03	GW-4	na	na	8.1E+03	na	na
Vinyl chloride	1.8E-01	GW-2	1.8E-01	na	3.3E-01	na	na
Total xylenes	1.1E+02	GW-2	1.1E+02	na	3.2E+02	na	na

Table I.2.A. Derivation of Preliminary RI SLs - Groundwater

South Park Marina Site, Seattle, Washington

	Preliminary RI SL		GW-2	GW-3	GW-4	VI	GW-5
Chemical (all concentrations in ug/L)	**Most Stringent PCUL Nonpotable Water GW #s 2-5**	**Source**	**Protect Surface Water SW**	**Protect Sediment Partit**	**Protect Indoor Air VI**	**TCE Short-Term Action Level for Cardiac Birth Defects Unrestricted VI Guidance**	**Natural Background**
Petroleum Hydrocarbons							
Gasoline range hydrocarbons, fresh	8.0E+02	GW-2	8.0E+02	na	na	na	na
Gasoline range hydrocarbons, weathered	1.0E+03	GW-2	1.0E+03	na	na	na	na
Diesel range hydrocarbons, fresh	5.0E+01	GW-2	5.0E+01	na	na	na	na
Diesel range hydrocarbons, weathered	5.0E+02	GW-2	5.0E+02	na	na	na	na
Oil range hydrocarbons	5.0E+02	GW-2	5.0E+02	na	na	na	na
Total diesel & oil range hydrocarbons	5.0E+02	GW-2	5.0E+02	na	na	na	na
Pesticides							
Aldrin	4.1E-08	GW-2	4.1E-08	1.1E-04	na	na	na
alpha-BHC (alpha-HCH)	4.8E-05	GW-2	4.8E-05	na	na	na	na
beta-BHC (beta-HCH)	1.4E-03	GW-2	1.4E-03	na	na	na	na
delta-BHC (delta-HCH)	na	na	na	na	na	na	na
Carbaryl	1.6E+00	GW-2	1.6E+00	na	na	na	na
cis-Chlordane (alpha)	7.8E-05	GW-3	na	7.8E-05	na	na	na
trans-Chlordane (gamma)	7.8E-05	GW-3	na	7.8E-05	na	na	na
Chlordane	2.2E-05	GW-2	2.2E-05	5.8E+00	na	na	na
Chlorpyrifos	5.6E-03	GW-2	5.6E-03	na	na	na	na
4,4'-DDD	7.9E-06	GW-2	7.9E-06	na	na	na	na
4,4'-DDE	8.8E-07	GW-2	8.8E-07	na	na	na	na
4,4'-DDT	1.2E-06	GW-2	1.2E-06	7.8E-06	na	na	na
Total DDD	7.9E-06	GW-2	7.9E-06	na	na	na	na
Total DDE	8.8E-07	GW-2	8.8E-07	na	na	na	na
Total DDT	1.2E-06	GW-2	1.2E-06	4.9E-01	na	na	na
Diazinon	8.2E-01	GW-2	8.2E-01	na	na	na	na
Dieldrin	7.0E-08	GW-2	7.0E-08	2.1E-04	na	na	na
Endosulfan I	8.7E-03	GW-2	8.7E-03	na	na	na	na
Endosulfan II	8.7E-03	GW-2	8.7E-03	na	na	na	na
Endosulfan sulfate	1.0E+01	GW-2	1.0E+01	na	na	na	na
Endrin	2.0E-03	GW-2	2.0E-03	na	na	na	na
Endrin aldehyde	3.5E-02	GW-2	3.5E-02	na	na	na	na
Endrin ketone	na	na	na	na	na	na	na
Heptachlor	3.4E-07	GW-2	3.4E-07	5.5E-04	5.1E-01	na	na
Heptachlor epoxide	2.4E-06	GW-2	2.4E-06	1.7E+00	na	na	na
Lindane (gamma-BHC)	1.3E-01	GW-2	1.3E-01	na	na	na	na
Malathion	1.0E-01	GW-2	1.0E-01	na	na	na	na
Methoxychlor	2.0E-02	GW-2	2.0E-02	na	na	na	na
Mirex	1.0E-03	GW-2	1.0E-03	na	1.5E-02	na	na
Nonachlor	na	na	na	na	na	na	na
Toxaphene	3.2E-05	GW-2	3.2E-05	na	na	na	na
Herbicides							
2,4-Dichlorophenoxyacetic acid (2,4-D)	1.2E+04	GW-2	1.2E+04	na	na	na	na
4-(2,4-Dichlorophenoxy)butanoic acid 2,4-DB	na	na	na	na	na	na	na
2-(2,4,5-Trichlorophenoxy)propionic acid (2,4,5-TP)	4.0E+02	GW-2	4.0E+02	na	na	na	na
2,4,5-Trichlorophenoxyacetic acid (2,4,5-T)	na	na	na	na	na	na	na
Dalapon	na	na	na	na	na	na	na
Dicamba	na	na	na	na	na	na	na
Dichloroprop	na	na	na	na	na	na	na
Dinoseb	na	na	na	na	na	na	na
2-Methyl-4-chlorophenoxy acetic acid (MCPA)	na	na	na	na	na	na	na
(2-Methyl-4-chlorophenol)2-propionic acid (MCPP)	na	na	na	na	na	na	na

Notes:

Refer to Section 6.2 of the Remedial Investigation Report for a description of the derivation process for Preliminary RI SLs.
RI - Remedial Investigation
SL - screening level
PCUL - preliminary cleanup level
PQL - practical quantitation limit
TEQ - toxic equivalency
na - no applicable screening level
ug/L - micrograms per liter

Table I.2.B. Derivation of Preliminary RI SLs - Vadose and Saturated Soil

South Park Marina Site, Seattle, Washington

	Preliminary RI SL				SL-1	SL-3	SL-4	SL-6	SL-7	SL-8	SL-9	SL-10
Chemical (all concentrations in mg/kg)	**Most Stringent Soil PCUL Vadose Zone Nonpotable GW SL #s 1, 3, 4, 8-10**	**Source**	**Most Stringent Soil PCUL Saturated Zone Nonpotable GW SL #s 1, 6-10**	**Source**	**Direct Contact Unrestricted** SL-Det	**Protect Surface Water via Ground Water Vadose Zone** Leach	**Protect Sediment via Ground Water Vadose Zone** Leach	**Protect Surface Water via Ground Water Saturated Zone** Leach	**Protect Sediment via Ground Water Saturated Zone** Leach	**Protect Sediment via Erosion Min. ROD CUL + SMS Lower Tier** Sed	**Site-Specific TEE Industrial / Commercial** SL-Det	**Natural Background** (Ecology, 1994)
Polychlorinated biphenyls (PCBs)												
Total PCB Aroclors	1.1E-05	SL-3	5.5E-07	SL-6	1.0E+00	1.1E-05	2.1E-03	5.5E-07	1.1E-04	2.0E-03	6.5E-01	na
Total PCB congeners	1.1E-05	SL-3	5.5E-07	SL-6	1.0E+00	1.1E-05	3.7E-03	5.5E-07	1.8E-04	3.5E-03	6.5E-01	na
Total PCB TEQ	6.9E-09	SL-3	3.5E-10	SL-6	1.3E-05	6.9E-09	7.4E-07	3.5E-10	3.7E-08	7.0E-07	na	na
Dioxins/Furans												
Total dioxin/furan TEQ	5.2E-06	SL-10	5.2E-06	SL-10	1.3E-05	2.5E-08	2.1E-06	1.3E-09	1.1E-07	2.0E-06	2.0E-06	5.2E-06
2,3,7,8-TCDD	5.2E-06	SL-10	5.2E-06	SL-10	1.3E-05	2.5E-08	2.5E-05	1.3E-09	1.2E-06	2.3E-05	2.9E-07	5.2E-06
Metals												
Aluminum	8.0E+04	SL-1	8.0E+04	SL-1	8.0E+04	na	na	na	na	na	na	3.3E+04
Antimony	3.2E+01	SL-1	5.2E+00	SL-10	3.2E+01	8.1E+01	na	4.1E+00	na	na	na	5.2E+00
Arsenic	7.3E+00	SL-10	7.3E+00	SL-10	3.1E-02	4.7E+00	1.3E+02	2.3E-01	6.5E+00	7.0E+00	1.3E+02	7.3E+00
Barium	2.5E+02	SL-10	2.5E+02	SL-10	1.6E+04	1.6E+02	na	8.3E+00	na	na	1.0E+02	2.5E+02
Beryllium	1.6E+02	SL-1	6.0E+01	SL-6	1.6E+02	1.2E+03	na	6.0E+01	na	na	na	6.1E-01
Cadmium	7.7E-01	SL-10	7.7E-01	SL-10	8.0E+01	1.1E+00	1.6E-01	5.5E-02	8.3E-03	5.1E+00	1.4E+01	7.7E-01
Chromium, total	6.7E+01	SL-9	6.7E+01	SL-9	na	na	na	na	na	2.6E+02	6.7E+01	4.8E+01
Chromium, trivalent	5.5E+02	SL-3	2.7E+01	SL-6	1.2E+05	5.5E+02	na	2.7E+01	na	na	na	na
Chromium, hexavalent	4.4E-02	SL-3	2.2E-03	SL-6	1.2E+00	4.4E-02	na	2.2E-03	na	na	na	na
Cobalt	2.4E+01	SL-1	2.4E+01	SL-1	2.4E+01	na	na	na	na	na	na	1.1E+01
Copper	3.6E+01	SL-10	3.6E+01	SL-10	3.2E+03	1.4E+00	6.1E+00	6.9E-02	3.0E-01	3.9E+02	2.2E+02	3.6E+01
Iron	5.6E+04	SL-1	5.6E+04	SL-1	5.6E+04	na	na	na	na	na	na	3.6E+04
Lead	1.2E+02	SL-9	8.1E+01	SL-6	2.5E+02	1.6E+03	3.9E+03	8.1E+01	1.9E+02	4.5E+02	1.2E+02	2.4E+01
Manganese	1.1E+03	SL-10	1.1E+03	SL-10	3.7E+03	1.3E+02	na	6.5E+00	na	na	1.5E+03	1.1E+03
Mercury, inorganic	7.0E-02	SL-10	7.0E-02	SL-10	na	2.6E-02	2.1E+00	1.3E-03	1.1E-01	4.1E-01	5.5E+00	7.0E-02
Methylmercury	4.0E-01	SL-9	4.0E-01	SL-9	8.0E+00	na	na	na	na	na	4.0E-01	na
Molybdenum	7.0E+00	SL-9	7.0E+00	SL-9	4.0E+02	na	na	na	na	na	7.0E+00	na
Nickel	4.8E+01	SL-10	4.8E+01	SL-10	1.6E+03	1.1E+01	na	5.4E-01	na	na	9.8E+02	4.8E+01
Selenium	7.8E-01	SL-10	7.8E-01	SL-10	4.0E+02	7.4E+00	na	3.8E-01	na	na	3.0E-01	7.8E-01
Silver	6.1E-01	SL-10	6.1E-01	SL-10	4.0E+02	1.5E-01	9.4E+00	7.8E-03	4.7E-01	6.1E+00	4.2E+00	6.1E-01
Thallium	8.8E-02	SL-3	4.4E-03	SL-6	8.0E-01	8.8E-02	na	4.4E-03	na	na	na	na
Tin	4.8E+04	SL-1	4.8E+04	SL-1	4.8E+04	na	na	na	na	na	na	na
Vanadium	4.0E+02	SL-1	4.0E+02	SL-1	4.0E+02	na	na	na	na	na	na	4.5E+01
Zinc	1.0E+02	SL-3	8.5E+01	SL-10	2.4E+04	1.0E+02	9.6E+02	5.0E+00	4.8E+01	4.1E+02	3.6E+02	8.5E+01
Metals - Butyltins												
Monobutyltin	na	na	na	na	na	na	na	na	na	na	na	na
Dibutyltin	na	na	na	na	na	na	na	na	na	na	na	na
Trybutyl tin	1.7E-03	SL-3	6.2E-05	SL-6	na	1.7E-03	na	6.2E-05	na	na	na	na
Tributyltin oxide	2.1E-03	SL-8	1.1E-04	SL-7	2.4E+01	na	2.2E-03	na	1.1E-04	2.1E-03	na	na
Tetrabutyltin	na	na	na	na	na	na	na	na	na	na	na	na
Polycyclic Aromatic Hydrocarbons (PAHs)												
Acenaphthene	5.0E-01	SL-8	2.8E-02	SL-7	4.8E+03	3.1E+00	5.4E-01	1.6E-01	2.8E-02	5.0E-01	1.3E+02	na
Acenaphthylene	1.3E+00	SL-8	1.3E+00	SL-8	na	na	na	na	na	1.3E+00	1.2E+02	na
Anthracene	9.6E-01	SL-8	5.1E-02	SL-7	2.4E+04	4.7E+01	1.0E+00	2.4E+00	5.1E-02	9.6E-01	2.1E+02	na

Table I.2.B. Derivation of Preliminary RI SLs - Vadose and Saturated Soil

South Park Marina Site, Seattle, Washington

	Preliminary RI SL				SL-1	SL-3	SL-4	SL-6	SL-7	SL-8	SL-9	SL-10
Chemical (all concentrations in mg/kg)	Most Stringent Soil PCUL Vadose Zone Nonpotable GW SL #s 1, 3, 4, 8-10	Source	Most Stringent Soil PCUL Saturated Zone Nonpotable GW SL #s 1, 6-10	Source	Direct Contact Unrestricted SL-Det	Protect Surface Water via Ground Water Vadose Zone Leach	Protect Sediment via Ground Water Vadose Zone Leach	Protect Surface Water via Ground Water Saturated Zone Leach	Protect Sediment via Ground Water Saturated Zone Leach	Protect Sediment via Erosion Min. ROD CUL + SMS Lower Tier Sed	Site-Specific TEE Industrial / Commercial SL-Det	Natural Background (Ecology, 1994)
Polycyclic Aromatic Hydrocarbons (PAHs)												
Benzo(a)anthracene	7.3E-01	SL-9	7.3E-01	SL-9	na	na	na	na	na	1.3E+00	7.3E-01	na
Benzo(b)fluoranthene	4.4E+01	SL-9	4.4E+01	SL-9	na	na	na	na	na	na	4.4E+01	na
Benzo(k)fluoranthene	7.1E+01	SL-9	7.1E+01	SL-9	na	na	na	na	na	na	7.1E+01	na
Total benzofluoranthenes	1.1E+00	SL-9	1.1E+00	SL-9	na	na	na	na	na	3.2E+00	1.1E+00	na
Benzo(g,h,i)perylene	6.7E-01	SL-8	6.7E-01	SL-8	na	na	na	na	na	6.7E-01	2.5E+01	na
Benzo(a)pyrene	3.1E-04	SL-3	1.6E-05	SL-6	1.9E-01	3.1E-04	1.7E+00	1.6E-05	8.4E-02	1.6E+00	1.2E+01	na
Chrysene	1.4E+00	SL-8	1.4E+00	SL-8	na	na	na	na	na	1.4E+00	3.1E+00	na
Dibenz(a,h)anthracene	2.3E-01	SL-8	2.3E-01	SL-8	na	na	na	na	na	2.3E-01	1.4E+01	na
Dibenzofuran	5.4E-01	SL-8	2.9E-02	SL-7	8.0E+01	na	5.8E-01	na	2.9E-02	5.4E-01	na	na
Fluoranthene	1.7E+00	SL-8	9.0E-02	SL-7	3.2E+03	5.9E+00	1.8E+00	3.0E-01	9.0E-02	1.7E+00	2.2E+01	na
Fluorene	5.4E-01	SL-8	2.9E-02	SL-7	3.2E+03	1.6E+00	5.8E-01	8.0E-02	2.9E-02	5.4E-01	2.5E+02	na
Indeno(1,2,3-cd)pyrene	6.0E-01	SL-8	6.0E-01	SL-8	na	na	na	na	na	6.0E-01	7.1E+01	na
Methyl isopropyl phenanthrene (retene)	na	na	na	na	na	na	na	na	na	na	na	na
1-Methylnaphthalene	2.0E+01	SL-1	2.0E+01	SL-1	2.0E+01	na	na	na	na	na	1.0E+02	na
2-Methylnaphthalene	6.7E-01	SL-8	3.9E-02	SL-7	3.2E+02	na	7.5E-01	na	3.9E-02	6.7E-01	1.6E+01	na
Naphthalene	3.9E-02	SL-3	2.1E-03	SL-6	1.6E+03	3.9E-02	2.5E+00	2.1E-03	1.3E-01	2.1E+00	3.4E+00	na
Phenanthrene	1.5E+00	SL-8	1.5E+00	SL-8	na	na	na	na	na	1.5E+00	1.1E+01	na
Pyrene	2.6E+00	SL-8	1.4E-01	SL-7	2.4E+03	1.1E+01	2.7E+00	5.5E-01	1.4E-01	2.6E+00	2.3E+01	na
Total LPAHs	5.2E+00	SL-8	5.2E+00	SL-8	na	na	na	na	na	5.2E+00	1.0E+02	na
Total HPAHs	1.1E+00	SL-9	1.1E+00	SL-9	na	na	na	na	na	1.2E+01	1.1E+00	na
Total PAHs	na	na	na	na	na	na	na	na	na	na	na	na
Total cPAH TEQ	3.1E-04	SL-3	1.6E-05	SL-6	1.9E-01	3.1E-04	6.2E-01	1.6E-05	3.1E-02	5.9E-01	na	na
Other Semivolatile Organic Compounds (SVOCs)												
Aniline	1.8E+02	SL-1	1.8E+02	SL-1	1.8E+02	na	na	na	na	na	na	na
Azobenzene	9.1E+00	SL-1	9.1E+00	SL-1	9.1E+00	na	na	na	na	na	na	na
Benzidine	6.4E-07	SL-3	3.4E-08	SL-6	8.2E-04	6.4E-07	na	3.4E-08	na	na	na	na
Benzoic acid	6.5E-01	SL-8	1.7E-01	SL-7	3.2E+05	na	2.4E+00	na	1.7E-01	6.5E-01	1.0E+00	na
Benzyl alcohol	5.7E-02	SL-8	1.7E-02	SL-7	8.0E+03	na	2.5E-01	na	1.7E-02	5.7E-02	1.2E+02	na
Bis(2-chloroethoxy)methane	2.4E+02	SL-1	2.4E+02	SL-1	2.4E+02	na	na	na	na	na	na	na
Bis(2-chloroethyl)ether	3.3E-04	SL-3	2.2E-05	SL-6	9.1E-01	3.3E-04	na	2.2E-05	na	na	na	na
Bis(chloromethyl)ether	7.4E-05	SL-3	5.0E-06	SL-6	4.5E-03	7.4E-05	na	5.0E-06	na	na	na	na
Bis(2-chloro-1-methylethyl)ether	5.9E-01	SL-3	3.8E-02	SL-6	1.4E+01	5.9E-01	na	3.8E-02	na	na	na	na
2,6-Bis(1,1-dimethylethyl) phenol	na	na	na	na	na	na	na	na	na	na	na	na
Bis(2-ethylhexyl) phthalate	2.0E-02	SL-9	5.1E-03	SL-6	7.1E+01	1.0E-01	1.4E+00	5.1E-03	6.9E-02	1.3E+00	2.0E-02	na
4-Bromophenyl phenyl ether	na	na	na	na	na	na	na	na	na	na	na	na
Butyl benzyl phthalate	3.6E-03	SL-3	1.8E-04	SL-6	5.3E+02	3.6E-03	6.7E-02	1.8E-04	3.4E-03	6.3E-02	9.0E+01	na
Butyl diphenyl phosphate	na	na	na	na	na	na	na	na	na	na	na	na
Carbazole	7.9E+01	SL-9	7.9E+01	SL-9	na	na	na	na	na	na	7.9E+01	na
4-Chloroaniline	5.0E+00	SL-1	5.0E+00	SL-1	5.0E+00	na	na	na	na	na	na	na
4-Chloro-3-methylphenol (chlorocresol)	5.0E-01	SL-3	2.8E-02	SL-6	8.0E+03	5.0E-01	na	2.8E-02	na	na	na	na
2-Chloronaphthalene (beta-)	5.4E+00	SL-3	2.8E-01	SL-6	6.4E+03	5.4E+00	na	2.8E-01	na	na	na	na

Table I.2.B. Derivation of Preliminary RI SLs - Vadose and Saturated Soil

South Park Marina Site, Seattle, Washington

	Preliminary RI SL				SL-1	SL-3	SL-4	SL-6	SL-7	SL-8	SL-9	SL-10
Chemical (all concentrations in mg/kg)	Most Stringent Soil PCUL Vadose Zone Nonpotable GW SL #s 1, 3, 4, 8-10	Source	Most Stringent Soil PCUL Saturated Zone Nonpotable GW SL #s 1, 6-10	Source	Direct Contact Unrestricted SL-Det	Protect Surface Water via Ground Water Vadose Zone Leach	Protect Sediment via Ground Water Vadose Zone Leach	Protect Surface Water via Ground Water Saturated Zone Leach	Protect Sediment via Ground Water Saturated Zone Leach	Protect Sediment via Erosion Min. ROD CUL + SMS Lower Tier Sed	Site-Specific TEE Industrial / Commercial SL-Det	Natural Background (Ecology, 1994)
Other Semivolatile Organic Compounds (SVOCs)												
2-Chlorophenol	2.0E-01	SL-3	1.1E-02	SL-6	4.0E+02	2.0E-01	na	1.1E-02	na	na	na	na
4-Chlorophenyl phenyl ether	na	na	na	na	na	na	na	na	na	na	na	na
Dibutyl phthalate	1.1E-02	SL-9	1.1E-02	SL-9	8.0E+03	2.8E-01	1.6E+00	1.5E-02	8.5E-02	1.4E+00	1.1E-02	na
Dibutyl phenyl phosphate	na	na	na	na	na	na	na	na	na	na	na	na
1,2-Dichlorobenzene	3.5E-02	SL-8	3.0E-03	SL-7	7.2E+03	9.3E+00	5.2E-02	5.3E-01	3.0E-03	3.5E-02	9.2E-01	na
1,3-Dichlorobenzene	2.3E-02	SL-3	1.3E-03	SL-6	na	2.3E-02	na	1.3E-03	na	na	7.4E-01	na
1,4-Dichlorobenzene	1.1E-01	SL-8	8.1E-03	SL-7	1.9E+02	9.8E-01	1.5E-01	5.4E-02	8.1E-03	1.1E-01	8.9E-01	na
3,3'-Dichlorobenzidine	2.2E-04	SL-3	1.1E-05	SL-6	2.2E+00	2.2E-04	na	1.1E-05	na	na	na	na
2,4-Dichlorophenol	6.9E-02	SL-3	4.3E-03	SL-6	2.4E+02	6.9E-02	na	4.3E-03	na	na	na	na
Di(2-ethylhexyl)adipate	8.3E+02	SL-1	8.3E+02	SL-1	8.3E+02	na	na	na	na	na	na	na
Diethyl phthalate	2.0E-01	SL-8	3.4E-02	SL-7	6.4E+04	1.1E+00	5.2E-01	7.4E-02	3.4E-02	2.0E-01	3.6E+03	na
Dimethyl phthalate	7.1E-02	SL-8	1.9E-02	SL-7	na	2.8E+00	2.7E-01	1.9E-01	1.9E-02	7.1E-02	3.8E+01	na
2,4-Dimethylphenol	2.9E-02	SL-8	2.3E-03	SL-7	1.6E+03	1.3E+00	4.0E-02	7.6E-02	2.3E-03	2.9E-02	na	na
1,2-Dinitrobenzene	8.0E+00	SL-1	8.0E+00	SL-1	8.0E+00	na	na	na	na	na	na	na
1,3-Dinitrobenzene	8.0E+00	SL-1	8.0E+00	SL-1	8.0E+00	na	na	na	na	na	na	na
1,4-Dinitrobenzene	8.0E+00	SL-1	8.0E+00	SL-1	8.0E+00	na	na	na	na	na	na	na
4,6-Dinitro-o-cresol (DNOC)	1.3E-01	SL-3	7.3E-03	SL-6	6.4E+00	1.3E-01	na	7.3E-03	na	na	na	na
2,4-Dinitrophenol	6.1E-02	SL-9	2.9E-02	SL-6	1.6E+02	4.0E-01	na	2.9E-02	na	na	6.1E-02	na
2,4-Dinitrotoluene	2.8E-03	SL-3	1.6E-04	SL-6	3.2E+00	2.8E-03	na	1.6E-04	na	na	na	na
2,6-Dinitrotoluene	6.7E-01	SL-1	6.7E-01	SL-1	6.7E-01	na	na	na	na	na	na	na
Di-n-octyl phthalate	9.1E-01	SL-9	3.3E-01	SL-7	8.0E+02	na	6.5E+00	na	3.3E-01	6.2E+00	9.1E-01	na
1,4-Dioxane	1.0E+01	SL-1	1.0E+01	SL-1	1.0E+01	na	na	na	na	na	na	na
1,2-Diphenylhydrazine	6.8E-04	SL-3	3.6E-05	SL-6	1.3E+00	6.8E-04	na	3.6E-05	na	na	na	na
Hexachlorobenzene	8.0E-06	SL-3	4.0E-07	SL-6	6.3E-01	8.0E-06	2.3E-02	4.0E-07	1.2E-03	2.2E-02	1.7E+01	na
Hexachlorobutadiene	2.1E-04	SL-3	1.1E-05	SL-6	1.3E+01	2.1E-04	1.4E-02	1.1E-05	7.5E-04	1.1E-02	4.0E-02	na
Hexachlorocyclopentadiene	3.2E-02	SL-3	1.7E-03	SL-6	4.8E+02	3.2E-02	na	1.7E-03	na	na	na	na
Hexachloroethane	1.6E-04	SL-3	9.7E-06	SL-6	2.5E+01	1.6E-04	na	9.7E-06	na	na	6.0E-01	na
Isophorone	5.8E-01	SL-3	3.9E-02	SL-6	1.1E+03	5.8E-01	na	3.9E-02	na	na	1.4E+02	na
2-Methoxynaphthalene	na	na	na	na	na	na	na	na	na	na	na	na
2-Methylphenol (o-cresol)	6.3E-02	SL-8	5.8E-03	SL-7	4.0E+03	na	9.9E-02	na	5.8E-03	6.3E-02	5.8E+02	na
3-Methylphenol (m-cresol)	4.0E+03	SL-1	4.0E+03	SL-1	4.0E+03	na	na	na	na	na	na	na
4-Methylphenol (p-cresol)	6.7E-01	SL-8	6.2E-02	SL-7	8.0E+03	na	1.1E+00	na	6.2E-02	6.7E-01	1.6E+02	na
2-Nitroaniline	8.0E+02	SL-1	8.0E+02	SL-1	8.0E+02	na	na	na	na	na	na	na
3-Nitroaniline	na	na	na	na	na	na	na	na	na	na	na	na
4-Nitroaniline	2.2E+01	SL-9	2.2E+01	SL-9	5.0E+01	na	na	na	na	na	2.2E+01	na
Nitrobenzene	6.4E-01	SL-3	4.1E-02	SL-6	1.6E+02	6.4E-01	na	4.1E-02	na	na	4.8E+00	na
2-Nitrophenol	na	na	na	na	na	na	na	na	na	na	na	na
4-Nitrophenol	na	na	na	na	na	na	na	na	na	na	na	na
n-Nitrosodimethylamine	1.5E-03	SL-3	1.1E-04	SL-6	3.7E-03	1.5E-03	na	1.1E-04	na	na	na	na
n-Nitrosodiphenylamine	2.8E-02	SL-8	1.6E-03	SL-7	2.0E+02	3.9E-02	3.1E-02	2.0E-03	1.6E-03	2.8E-02	5.5E-01	na
n-Nitrosodi-n-propylamine	5.5E-04	SL-3	3.3E-05	SL-6	1.4E-01	5.5E-04	na	3.3E-05	na	na	na	na

Table I.2.B. Derivation of Preliminary RI SLs - Vadose and Saturated Soil

South Park Marina Site, Seattle, Washington

	Preliminary RI SL				SL-1	SL-3	SL-4	SL-6	SL-7	SL-8	SL-9	SL-10
Chemical (all concentrations in mg/kg)	Most Stringent Soil PCUL Vadose Zone Nonpotable GW SL #s 1, 3, 4, 8-10	Source	Most Stringent Soil PCUL Saturated Zone Nonpotable GW SL #s 1, 6-10	Source	Direct Contact Unrestricted SL-Det	Protect Surface Water via Ground Water Vadose Zone Leach	Protect Sediment via Ground Water Vadose Zone Leach	Protect Surface Water via Ground Water Saturated Zone Leach	Protect Sediment via Ground Water Saturated Zone Leach	Protect Sediment via Erosion Min. ROD CUL + SMS Lower Tier Sed	Site-Specific TEE Industrial / Commercial SL-Det	Natural Background (Ecology, 1994)
Other Semivolatile Organic Compounds (SVOCs)												
Pentachlorophenol	3.2E-05	SL-3	1.8E-06	SL-6	2.5E+00	3.2E-05	1.4E-02	1.8E-06	7.6E-04	3.6E-01	4.5E+00	na
Phenol	4.2E-01	SL-8	4.8E-02	SL-7	2.4E+04	5.4E+02	7.8E-01	3.3E+01	4.8E-02	4.2E-01	3.7E+01	na
Pyridine	8.0E+01	SL-1	8.0E+01	SL-1	8.0E+01	na	na	na	na	na	na	na
2,3,4,5-Tetrachlorophenol	na	na	na	na	na	na	na	na	na	na	na	na
2,3,4,6-Tetrachlorophenol	2.4E+03	SL-1	2.4E+03	SL-1	2.4E+03	na	na	na	na	na	na	na
1,2,4-Trichlorobenzene	1.4E-03	SL-3	7.2E-05	SL-6	3.4E+01	1.4E-03	3.6E-02	7.2E-05	1.9E-03	3.1E-02	2.7E-01	na
2,4,5-Trichlorophenol	2.2E+01	SL-3	1.1E+00	SL-6	8.0E+03	2.2E+01	na	1.1E+00	na	na	na	na
2,4,6-Trichlorophenol	3.3E-03	SL-3	1.9E-04	SL-6	8.0E+01	3.3E-03	na	1.9E-04	na	na	9.9E+00	na
Acetone	1.2E+00	SL-9	1.2E+00	SL-9	7.2E+04	na	na	na	na	na	1.2E+00	na
Acetaldehyde	na	na	na	na	na	na	na	na	na	na	na	na
Acrolein	4.4E-03	SL-3	3.2E-04	SL-6	4.0E+01	4.4E-03	na	3.2E-04	na	na	na	na
Acrylonitrile	1.2E-04	SL-3	8.3E-06	SL-6	1.9E+00	1.2E-04	na	8.3E-06	na	na	na	na
Benzaldehyde	2.5E+02	SL-1	2.5E+02	SL-1	2.5E+02	na	na	na	na	na	na	na
Benzene	8.8E-03	SL-3	5.6E-04	SL-6	1.8E+01	8.8E-03	na	5.6E-04	na	na	2.4E+01	na
Bromobenzene	6.4E+02	SL-1	6.4E+02	SL-1	6.4E+02	na	na	na	na	na	na	na
Bromochloromethane	na	na	na	na	na	na	na	na	na	na	na	na
Bromoethane	na	na	na	na	na	na	na	na	na	na	na	na
Bromoform	7.8E-02	SL-3	5.0E-03	SL-6	1.3E+02	7.8E-02	na	5.0E-03	na	na	na	na
Bromomethane	2.4E-01	SL-9	7.9E-02	SL-6	1.1E+02	1.2E+00	na	7.9E-02	na	na	2.4E-01	na
2-Butoxyethanol (EGBE)	8.0E+03	SL-1	8.0E+03	SL-1	8.0E+03	na	na	na	na	na	na	na
n-Butylbenzene	4.0E+03	SL-1	4.0E+03	SL-1	4.0E+03	na	na	na	na	na	na	na
sec-Butylbenzene	8.0E+03	SL-1	8.0E+03	SL-1	8.0E+03	na	na	na	na	na	na	na
tert-Butylbenzene	8.0E+03	SL-1	8.0E+03	SL-1	8.0E+03	na	na	na	na	na	na	na
Carbon disulfide	8.1E-01	SL-9	8.1E-01	SL-9	8.0E+03	na	na	na	na	na	8.1E-01	na
Carbon tetrachloride	2.9E-03	SL-3	1.5E-04	SL-6	1.4E+01	2.9E-03	na	1.5E-04	na	na	na	na
Chlorobenzene	1.7E+00	SL-3	1.0E-01	SL-6	1.6E+03	1.7E+00	na	1.0E-01	na	na	4.3E+01	na
Chloroethane	na	na	na	na	na	na	na	na	na	na	na	na
2-Chloroethyl vinyl ether	na	na	na	na	na	na	na	na	na	na	na	na
Chloroform	8.1E-01	SL-3	5.2E-02	SL-6	3.2E+01	8.1E-01	na	5.2E-02	na	na	na	na
Chloromethane	na	na	na	na	na	na	na	na	na	na	na	na
3-Chloro-1-propene (allyl chloride)	4.8E+01	SL-1	4.8E+01	SL-1	4.8E+01	na	na	na	na	na	na	na
2-Chlorotoluene	1.6E+03	SL-1	1.6E+03	SL-1	1.6E+03	na	na	na	na	na	na	na
4-Chlorotoluene	1.6E+03	SL-1	1.6E+03	SL-1	1.6E+03	na	na	na	na	na	na	na
Dibromochloromethane	1.0E-02	SL-3	7.0E-04	SL-6	1.2E+01	1.0E-02	na	7.0E-04	na	na	na	na
1,2-Dibromo-3-chloropropane	2.3E-01	SL-1	2.3E-01	SL-1	2.3E-01	na	na	na	na	na	na	na
Dibromomethane	8.0E+02	SL-1	8.0E+02	SL-1	8.0E+02	na	na	na	na	na	na	na
Dichlorobromomethane	1.3E-02	SL-3	8.9E-04	SL-6	1.6E+01	1.3E-02	na	8.9E-04	na	na	na	na
trans-1,4-Dichloro-2-butene	na	na	na	na	na	na	na	na	na	na	na	na
Dichlorodifluoromethane	1.6E+04	SL-1	1.6E+04	SL-1	1.6E+04	na	na	na	na	na	na	na
1,1-Dichloroethane	1.8E+02	SL-1	1.8E+02	SL-1	1.8E+02	na	na	na	na	na	2.1E+02	na
1,2-Dichloroethane (EDC)	3.5E-01	SL-3	2.4E-02	SL-6	1.1E+01	3.5E-01	na	2.4E-02	na	na	na	na

Table I.2.B. Derivation of Preliminary RI SLs - Vadose and Saturated Soil

South Park Marina Site, Seattle, Washington

	Preliminary RI SL				SL-1	SL-3	SL-4	SL-6	SL-7	SL-8	SL-9	SL-10
Chemical (all concentrations in mg/kg)	Most Stringent Soil PCUL Vadose Zone Nonpotable GW SL #s 1, 3, 4, 8-10	Source	Most Stringent Soil PCUL Saturated Zone Nonpotable GW SL #s 1, 6-10	Source	Direct Contact Unrestricted SL-Det	Protect Surface Water via Ground Water Vadose Zone Leach	Protect Sediment via Ground Water Vadose Zone Leach	Protect Surface Water via Ground Water Saturated Zone Leach	Protect Sediment via Ground Water Saturated Zone Leach	Protect Sediment via Erosion Min. ROD CUL + SMS Lower Tier Sed	Site-Specific TEE Industrial / Commercial SL-Det	Natural Background (Ecology, 1994)
Volatile Organic Compounds (VOCs)												
1,1-Dichloroethylene	1.1E+01	SL-9	1.4E+00	SL-6	4.0E+03	2.6E+01	na	1.4E+00	na	na	1.1E+01	na
cis-1,2-Dichloroethylene	2.4E+01	SL-9	2.4E+01	SL-9	1.6E+02	na	na	na	na	na	2.4E+01	na
trans-1,2-Dichloroethylene	7.8E-01	SL-9	3.2E-01	SL-6	1.6E+03	5.2E+00	na	3.2E-01	na	na	7.8E-01	na
1,2-Dichloroethylene (mixed isomers)	na	na	na	na	na	na	na	na	na	na	na	na
1,2-Dichloropropane	1.6E-02	SL-3	1.0E-03	SL-6	2.7E+01	1.6E-02	na	1.0E-03	na	na	na	na
1,3-Dichloropropane	6.6E-03	SL-3	4.3E-04	SL-6	1.6E+03	6.6E-03	na	4.3E-04	na	na	na	na
2,2-Dichloropropane	na	na	na	na	na	na	na	na	na	na	na	na
1,1-Dichloropropene	na	na	na	na	na	na	na	na	na	na	na	na
cis-1,3-Dichloropropene	5.6E-03	SL-3	3.8E-04	SL-6	1.0E+01	5.6E-03	na	3.8E-04	na	na	na	na
trans-1,3-Dichloropropene	5.6E-03	SL-3	3.8E-04	SL-6	1.0E+01	5.6E-03	na	3.8E-04	na	na	na	na
Diisopropyl ether	na	na	na	na	na	na	na	na	na	na	na	na
Ethane	na	na	na	na	na	na	na	na	na	na	na	na
Ethylbenzene	1.8E-01	SL-3	1.0E-02	SL-6	8.0E+03	1.8E-01	na	1.0E-02	na	na	5.2E+00	na
Ethylene oxide	6.0E-01	SL-1	6.0E-01	SL-1	6.0E-01	na	na	na	na	na	na	na
Ethyl ether	1.6E+04	SL-1	1.6E+04	SL-1	1.6E+04	na	na	na	na	na	na	na
Ethylene dibromide (EDB)	5.0E-01	SL-1	5.0E-01	SL-1	5.0E-01	na	na	na	na	na	na	na
Formaldehyde	8.9E+00	SL-1	8.9E+00	SL-1	8.9E+00	na	na	na	na	na	na	na
n-Hexane	4.8E+03	SL-1	4.8E+03	SL-1	4.8E+03	na	na	na	na	na	na	na
2-Hexanone	4.0E+02	SL-1	4.0E+02	SL-1	4.0E+02	na	na	na	na	na	na	na
Isopropylbenzene (cumene)	8.0E+03	SL-1	8.0E+03	SL-1	8.0E+03	na	na	na	na	na	na	na
4-Isopropyltoluene (p-isopropyltoluene)	3.2E+02	SL-1	3.2E+02	SL-1	3.2E+02	na	na	na	na	na	na	na
Methane	na	na	na	na	na	na	na	na	na	na	na	na
Methyl ethyl ketone (2-butanone)	3.5E+02	SL-9	3.5E+02	SL-9	4.8E+04	na	na	na	na	na	3.5E+02	na
Methyl iodide	na	na	na	na	na	na	na	na	na	na	na	na
Methyl isobutyl ketone	6.4E+03	SL-1	6.4E+03	SL-1	6.4E+03	na	na	na	na	na	na	na
Methyl tert-butyl ether (MTBE)	5.6E+02	SL-1	5.6E+02	SL-1	5.6E+02	na	na	na	na	na	na	na
Methylene chloride	4.3E-01	SL-3	3.0E-02	SL-6	9.4E+01	4.3E-01	na	3.0E-02	na	na	2.6E+00	na
2-Pentanone	na	na	na	na	na	na	na	na	na	na	na	na
n-Propylbenzene	8.0E+03	SL-1	8.0E+03	SL-1	8.0E+03	na	na	na	na	na	na	na
Styrene	4.7E+00	SL-9	4.7E+00	SL-9	1.6E+04	na	na	na	na	na	4.7E+00	na
1,1,1,2-Tetrachloroethane	3.8E+01	SL-1	3.8E+01	SL-1	3.8E+01	na	na	na	na	na	na	na
1,1,2,2-Tetrachloroethane	1.7E-03	SL-3	1.1E-04	SL-6	5.0E+00	1.7E-03	na	1.1E-04	na	na	na	na
Tetrachloroethylene (PCE)	2.9E-02	SL-3	1.6E-03	SL-6	4.8E+02	2.9E-02	na	1.6E-03	na	na	1.8E-01	na
Tetrahydrofuran	7.2E+04	SL-1	7.2E+04	SL-1	7.2E+04	na	na	na	na	na	na	na
Toluene	7.2E-01	SL-3	4.4E-02	SL-6	6.4E+03	7.2E-01	na	4.4E-02	na	na	2.3E+01	na
1,2,3-Trichlorobenzene	6.4E+01	SL-1	6.4E+01	SL-1	6.4E+01	na	na	na	na	na	na	na
1,1,1-Trichloroethane	3.7E+02	SL-3	2.1E+01	SL-6	1.6E+05	3.7E+02	na	2.1E+01	na	na	na	na
1,1,2-Trichloroethane	5.0E-03	SL-3	3.3E-04	SL-6	1.8E+01	5.0E-03	na	3.3E-04	na	na	2.9E+01	na
Trichloroethylene (TCE)	4.4E-03	SL-3	2.7E-04	SL-6	1.2E+01	4.4E-03	na	2.7E-04	na	na	4.2E+01	na
Trichlorofluoroethane	na	na	na	na	na	na	na	na	na	na	na	na
Trichlorofluoromethane	2.4E+04	SL-1	2.4E+04	SL-1	2.4E+04	na	na	na	na	na	na	na

Table I.2.B. Derivation of Preliminary RI SLs - Vadose and Saturated Soil

South Park Marina Site, Seattle, Washington

	Preliminary RI SL				SL-1	SL-3	SL-4	SL-6	SL-7	SL-8	SL-9	SL-10
Chemical (all concentrations in mg/kg)	Most Stringent Soil PCUL Vadose Zone Nonpotable GW SL #s 1, 3, 4, 8-10	Source	Most Stringent Soil PCUL Saturated Zone Nonpotable GW SL #s 1, 6-10	Source	Direct Contact Unrestricted SL-Det	Protect Surface Water via Ground Water Vadose Zone Leach	Protect Sediment via Ground Water Vadose Zone Leach	Protect Surface Water via Ground Water Saturated Zone Leach	Protect Sediment via Ground Water Saturated Zone Leach	Protect Sediment via Erosion Min. ROD CUL + SMS Lower Tier Sed	Site-Specific TEE Industrial / Commercial SL-Det	Natural Background (Ecology, 1994)
Volatile Organic Compounds (VOCs)												
1,2,3-Trichloropropane	6.3E-03	SL-1	6.3E-03	SL-1	6.3E-03	na	na	na	na	na	3.4E+00	na
Trichlorotrifluoroethane	2.4E+06	SL-1	2.4E+06	SL-1	2.4E+06	na	na	na	na	na	na	na
1,2,3-Trimethylbenzene	8.0E+02	SL-1	8.0E+02	SL-1	8.0E+02	na	na	na	na	na	na	na
1,2,4-Trimethylbenzene	8.0E+02	SL-1	8.0E+02	SL-1	8.0E+02	na	na	na	na	na	na	na
1,3,5-Trimethylbenzene	8.0E+02	SL-1	8.0E+02	SL-1	8.0E+02	na	na	na	na	na	na	na
Vinyl acetate	8.0E+04	SL-1	8.0E+04	SL-1	8.0E+04	na	na	na	na	na	na	na
Vinyl chloride	1.1E-03	SL-3	5.6E-05	SL-6	6.7E-01	1.1E-03	na	5.6E-05	na	na	1.2E-01	na
Total xylenes	9.4E-01	SL-3	5.5E-02	SL-6	1.6E+04	9.4E-01	na	5.5E-02	na	na	1.4E+00	na
Petroleum Hydrocarbons												
Gasoline range hydrocarbons, fresh	3.0E+01	SL-3	3.0E+01	SL-3	1.5E+03	3.0E+01	na	3.0E+01	na	na	5.0E+03	na
Gasoline range hydrocarbons, weathered	1.0E+02	SL-3	1.0E+02	SL-3	1.5E+03	1.0E+02	na	1.0E+02	na	na	5.0E+03	na
Diesel range hydrocarbons, fresh	2.0E+03	SL-3	2.0E+03	SL-3	na	2.0E+03	na	2.0E+03	na	na	6.0E+03	na
Diesel range hydrocarbons, weathered	2.0E+03	SL-3	2.0E+03	SL-3	na	2.0E+03	na	2.0E+03	na	na	6.0E+03	na
Oil range hydrocarbons	2.0E+03	SL-3	2.0E+03	SL-3	na	2.0E+03	na	2.0E+03	na	na	6.0E+03	na
Total diesel & oil range hydrocarbons	2.0E+03	SL-3	2.0E+03	SL-3	na	2.0E+03	na	2.0E+03	na	na	6.0E+03	na
Pesticides												
Aldrin	4.0E-08	SL-3	2.0E-09	SL-6	5.9E-02	4.0E-08	1.1E-04	2.0E-09	5.3E-06	1.0E-04	1.0E-01	na
alpha-BHC (alpha-HCH)	1.9E-06	SL-3	9.8E-08	SL-6	1.6E-01	1.9E-06	na	9.8E-08	na	na	6.0E+00	na
beta-BHC (beta-HCH)	6.6E-05	SL-3	3.4E-06	SL-6	5.6E-01	6.6E-05	na	3.4E-06	na	na	6.0E+00	na
delta-BHC (delta-HCH)	4.8E-03	SL-1	4.8E-03	SL-1	4.8E-03	na	na	na	na	na	6.0E+00	na
Carbaryl	1.8E-02	SL-3	1.0E-03	SL-6	8.0E+03	1.8E-02	na	1.0E-03	na	na	na	na
cis-Chlordane (alpha)	1.0E-04	SL-8	5.3E-06	SL-7	4.0E+01	na	1.1E-04	na	5.3E-06	1.0E-04	2.7E+00	na
trans-Chlordane (gamma)	1.0E-04	SL-8	5.3E-06	SL-7	4.0E+01	na	1.1E-04	na	5.3E-06	1.0E-04	2.7E+00	na
Chlordane	2.3E-05	SL-3	1.1E-06	SL-6	2.9E+00	2.3E-05	5.9E+00	1.1E-06	3.0E-01	5.6E+00	2.7E+00	na
Chlorpyrifos	8.4E-04	SL-3	4.2E-05	SL-6	8.0E+01	8.4E-04	na	4.2E-05	na	na	na	na
4,4'-DDD	7.3E-06	SL-3	3.6E-07	SL-6	4.2E+00	7.3E-06	na	3.6E-07	na	na	7.5E-01	na
4,4'-DDE	1.5E-06	SL-3	7.6E-08	SL-6	2.9E+00	1.5E-06	na	7.6E-08	na	na	7.5E-01	na
4,4'-DDT	1.6E-05	SL-3	8.1E-07	SL-6	2.9E+00	1.6E-05	1.1E-04	8.1E-07	5.3E-06	1.0E-04	7.5E-01	na
Total DDD	7.3E-06	SL-3	3.6E-07	SL-6	4.2E+00	7.3E-06	na	3.6E-07	na	na	7.5E-01	na
Total DDE	1.5E-06	SL-3	7.6E-08	SL-6	2.9E+00	1.5E-06	na	7.6E-08	na	na	7.5E-01	na
Total DDT	1.6E-05	SL-3	8.1E-07	SL-6	2.9E+00	1.6E-05	6.6E+00	8.1E-07	3.3E-01	6.3E+00	7.5E-01	na
Diazinon	5.3E-02	SL-3	2.7E-03	SL-6	5.6E+01	5.3E-02	na	2.7E-03	na	na	na	na
Dieldrin	3.6E-08	SL-3	1.8E-09	SL-6	6.3E-02	3.6E-08	1.1E-04	1.8E-09	5.3E-06	1.0E-04	7.0E-02	na
Endosulfan I	1.2E-03	SL-3	6.1E-05	SL-6	na	1.2E-03	na	6.1E-05	na	na	1.2E-01	na
Endosulfan II	1.2E-03	SL-3	6.1E-05	SL-6	na	1.2E-03	na	6.1E-05	na	na	na	na
Endosulfan sulfate	2.0E+00	SL-3	1.0E-01	SL-6	4.8E+02	2.0E+00	na	1.0E-01	na	na	na	na
Endrin	4.4E-04	SL-3	2.2E-05	SL-6	2.4E+01	4.4E-04	na	2.2E-05	na	na	2.0E-01	na
Endrin aldehyde	2.4E-03	SL-3	1.2E-04	SL-6	na	2.4E-03	na	1.2E-04	na	na	1.1E-02	na
Endrin ketone	na	na	na	na	na	na	na	na	na	na	na	na
Heptachlor	6.6E-08	SL-3	3.3E-09	SL-6	2.2E-01	6.6E-08	1.1E-04	3.3E-09	5.4E-06	1.0E-04	4.0E-01	na
Heptachlor epoxide	4.9E-07	SL-3	2.5E-08	SL-6	1.1E-01	4.9E-07	3.4E-01	2.5E-08	1.7E-02	3.2E-01	4.0E-01	na

Table I.2.B. Derivation of Preliminary RI SLs - Vadose and Saturated Soil

South Park Marina Site, Seattle, Washington

	Preliminary RI SL				SL-1	SL-3	SL-4	SL-6	SL-7	SL-8	SL-9	SL-10
Chemical (all concentrations in mg/kg)	**Most Stringent Soil PCUL Vadose Zone Nonpotable GW SL #s 1, 3, 4, 8-10**	**Source**	**Most Stringent Soil PCUL Saturated Zone Nonpotable GW SL #s 1, 6-10**	**Source**	**Direct Contact Unrestricted** SL-Det	**Protect Surface Water via Ground Water Vadose Zone** Leach	**Protect Sediment via Ground Water Vadose Zone** Leach	**Protect Surface Water via Ground Water Saturated Zone** Leach	**Protect Sediment via Ground Water Saturated Zone** Leach	**Protect Sediment via Erosion Min. ROD CUL + SMS Lower Tier** Sed	**Site-Specific TEE Industrial / Commercial** SL-Det	**Natural Background** (Ecology, 1994)
Lindane (gamma-BHC)												
Lindane (gamma-BHC)	3.9E-03	SL-3	2.1E-04	SL-6	9.1E-01	3.9E-03	na	2.1E-04	na	na	6.0E+00	na
Malathion	4.6E-04	SL-3	3.2E-05	SL-6	1.6E+03	4.6E-04	na	3.2E-05	na	na	na	na
Methoxychlor	3.2E-02	SL-3	1.6E-03	SL-6	4.0E+02	3.2E-02	na	1.6E-03	na	na	na	na
Mirex	7.1E-03	SL-3	3.6E-04	SL-6	5.6E-02	7.1E-03	na	3.6E-04	na	na	na	na
Nonachlor	na	na	na	na	na	na	na	na	na	na	na	na
Toxaphene	6.1E-05	SL-3	3.1E-06	SL-6	9.1E-01	6.1E-05	na	3.1E-06	na	na	na	na

Notes:

Vadose zone soil is defined as soil between 0 and 6 feet below ground surface; saturated soil is defined as soil 6 or more feet below ground surface.

Refer to Section 6.2 of the Remedial Investigation Report for a description of the derivation process for Preliminary Remedial Investigation Screening Levels.

Red Text indicates a Site-specific TEE value that has been changed from the default PCUL Workbook (Ecology, 2025)

RI - Remedial Investigation

SL - screening level

PCUL - preliminary cleanup level

ROD CUL - Record of Decision Cleanup Level

SMS - Sediment Management Standards

TEE - terrestrial ecological evaluation

TEQ - toxic equivalancy

na - no applicable screening level

mg/kg - milligrams per kilogram

Table I.2.C - Evaluation of TEE Screening Levels for Analytes Detected in Soil

South Park Marina Site, Seattle, Washington

	Detections in Soil		Researched TEE Values (mg/kg)				Selected TEE SL
	Vadose	Saturated	Industrial TEE Value (MTCA Table 749-3)	EPA Eco-SSL	LANL ECORISK	EPA Regional Value	
Metals, Total							
Arsenic	X	X	132	--	--	--	132
Barium	X	X	102	--	--	--	102
Cadmium	X	X	14	--	--	--	14
Chromium	X	X	67	--	--	--	67
Copper	X	X	217	--	--	--	217
Lead	X	X	118	--	--	--	118
Mercury	X	X	5.5	--	--	--	5.5
Nickel	X	X	980	--	--	--	980
Selenium	X	X	0.3	--	--	--	0.3
Silver	X	X	NA	4.2	--	--	4.2
Zinc	X	X	360	--	--	--	360
Butyl Tins							
Dibutyltin Ion	X	X	NA	NA	NA	NA	NA
Monobutyltin	X	X	NA	NA	NA	NA	NA
Tributyltin Ion	X	X	NA	NA	NA	NA	NA
Polychlorinated Biphenyl (PCB) Aroclors							
Total PCB Aroclors (ND = 0)	X	X	0.65	--	--	--	0.65
Polychlorinated Biphenyl (PCB) Congeners							
Total PCB Congeners (ND = 0)	X	X	0.65	--	--	--	0.65
Total PCB TEQ (ND = 0)	X	X	NA	NA	NA	NA	NA
Dioxins/Furans							
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	X	X	2.0E-06[a]	--	--	--	2.0E-06[a]
2,3,7,8-TCDD	X	X	NA	NA	2.9E-07	--	0.00000029
Polycyclic Aromatic Hydrocarbons (PAHs)							
1-Methylnaphthalene	X	X	NA	NA	NA	NA	100[b]
2-Methylnaphthalene	X	X	NA	NA	16	--	16
Acenaphthene	X	X	NA	NA	130	--	130
Acenaphthylene	X	X	NA	NA	120	--	120
Anthracene	X	X	NA	NA	210	--	210
Benzo(g,h,i)perylene	X	X	NA	NA	25	--	25
Fluoranthene	X	X	NA	NA	22	--	22
Fluorene	X	X	NA	NA	250	--	250
Naphthalene	X	X	NA	NA	3.4	--	3.4
Phenanthrene	X	X	NA	NA	11	--	11
Pyrene	X	X	NA	NA	23	--	23
Benz(a)anthracene	X	X	NA	NA	0.73	--	0.73
Benzo(a)pyrene	X	X	12	--	--	--	12
Benzo(b)fluoranthene	X	X	NA	NA	44	--	44
Benzo(j)fluoranthene	X	X	NA	NA	NA	NA	1.1[b]
Benzo(j,k)fluoranthene	X	X	NA	NA	NA	NA	1.1[b]
Benzo(k)fluoranthene	X	X	NA	NA	71	--	71
Chrysene	X	X	NA	NA	3.1	--	3.1
Dibenzo(a,h)anthracene	X	X	NA	NA	14	--	14
Indeno(1,2,3-cd)pyrene	X	X	NA	NA	71	--	71
Total Benzofluoranthenes	X	X	NA	NA	NA	NA	1.1[b]
Total HPAHs (ND = 1/2 RDL)	X	X	NA	1.1	--	--	1.1
Total LPAHs (ND = 1/2 RDL)	X	X	NA	100	--	--	100
Total cPAHs TEQ (ND = 1/2 RDL)	X	X	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (SVOCs)							
2,4,6-Trichlorophenol	X		NA	NA	NA	9.9	9.9
2,4-Dimethylphenol		X	NA	NA	NA	NA	NA
2,4-Dinitrophenol		X	NA	NA	NA	0.061	0.061
2-Methylphenol	X		NA	NA	580	--	580
4-Methylphenol	X	X	NA	NA	NA	163	163
4-Nitroaniline	X		NA	NA	NA	22	22
Benzoic acid	X	X	NA	NA	1.0	--	1.0
Benzyl alcohol	X	X	NA	NA	120	--	120
Benzyl butyl phthalate	X	X	NA	NA	90	--	90
Bis(2-ethylhexyl) phthalate	X	X	NA	NA	0.020	--	0.020
Carbazole	X	X	NA	NA	79	--	79
Dibenzofuran	X	X	NA	NA	NA	NA	NA
Diethyl phthalate	X	X	NA	NA	3,600	--	3,600
Dimethyl phthalate	X	X	NA	NA	38	--	38
Di-n-butyl phthalate	X	X	NA	NA	0.011	--	0.011
Di-n-octyl phthalate	X		NA	NA	0.91	--	0.91
Hexachlorobenzene		X	17	--	--	--	17
Hexachlorobutadiene		X	NA	NA	NA	0.040	0.040
Hexachloroethane	X		NA	NA	NA	0.60	0.60
Isophorone	X	X	NA	NA	NA	139	139
Nitrobenzene	X		NA	NA	4.8	--	4.8
N-Nitrosodiphenylamine	X	X	NA	NA	NA	0.55	0.55
Pentachlorophenol	X	X	4.5	--	--	--	4.5
Phenol	X	X	NA	NA	37	--	37

Table I.2.C - Evaluation of TEE Screening Levels for Analytes Detected in Soil

South Park Marina Site, Seattle, Washington

	Detections in Soil		Researched TEE Values (mg/kg)				Selected TEE SL
	Vadose	Saturated	Industrial TEE Value (MTCA Table 749-3)	EPA Eco-SSL	LANL ECORISK	EPA Regional Value	
Pesticides							
2,4'-DDD	X	X	0.75	--	--	--	0.75
2,4'-DDT	X	X	0.75	--	--	--	0.75
4,4'-DDD	X	X	0.75	--	--	--	0.75
4,4'-DDE	X	X	0.75	--	--	--	0.75
4,4'-DDT	X	X	0.75	--	--	--	0.75
Aldrin	X	X	0.10	--	--	--	0.10
Alpha-BHC	X	X	6.0	--	--	--	6.0
cis-Chlordane	X	X	2.7	--	--	--	2.7
Delta-BHC		X	6.0	--	--	--	6.0
Dieldrin	X	X	0.070	--	--	--	0.070
Endosulfan I	X		NA	NA	NA	0.12	0.12
Endrin	X		0.20	--	--	--	0.20
Endrin Aldehyde		X	NA	NA	NA	0.011	0.011
Endrin Ketone	X		NA	NA	NA	NA	NA
Heptachlor		X	0.40	--	--	--	0.40
Heptachlor Epoxide		X	0.40	--	--	--	0.40
trans-Chlordane	X	X	2.7	--	--	--	2.7
Total Petroleum Hydrocarbons (TPH)							
Gasoline Range Organics	X	X	5,000	--	--	--	5,000
Diesel Range Organics	X	X	6,000	--	--	--	6,000
Motor Oil Range Organics	X	X	6,000	--	--	--	6,000
Diesel and Oil Extended Range Organics	X	X	6,000	--	--	--	6,000
Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)							
Benzene	X	X	NA	NA	24	--	24
Toluene	X	X	NA	NA	23	--	23
Ethylbenzene	X	X	NA	NA	NA	5.2	5.2
Total Xylenes	X	X	NA	NA	1.4	--	1.4
Volatile Organic Compounds (VOCs)							
1,1,2-Trichloroethane	X		NA	NA	NA	29	29
1,1-Dichloroethane	X	X	NA	NA	210	--	210
1,1-Dichloroethene		X	NA	NA	11	--	11
1,2,3-Trichloropropane	X		NA	NA	NA	3.4	3.4
1,2,4-Trichlorobenzene	X	X	NA	NA	0.27	--	0.27
1,2,4-Trimethylbenzene	X	X	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	X	X	NA	NA	0.92	--	0.92
1,3,5-Trimethylbenzene	X	X	NA	NA	NA	NA	NA
1,3-Dichlorobenzene		X	NA	NA	0.74	--	0.74
1,4-Dichlorobenzene	X	X	NA	NA	0.89	--	0.89
2-Butanone	X	X	NA	NA	350	--	350
2-Pentanone	X		NA	NA	NA	NA	NA
4-Methyl-2-pentanone	X		NA	NA	NA	NA	NA
Acetone	X	X	NA	NA	1.2	--	1.2
Bromomethane	X	X	NA	NA	NA	0.24	0.24
Carbon Disulfide	X	X	NA	NA	0.81	--	0.81
Chlorobenzene	X	X	NA	NA	43	--	43
cis-1,2-Dichloroethene (DCE)	X	X	NA	NA	24	--	24
Isopropylbenzene	X	X	NA	NA	NA	NA	NA
Methylene Chloride	X	X	NA	NA	2.6	--	2.6
n-Butylbenzene	X	X	NA	NA	NA	NA	NA
n-Propylbenzene	X	X	NA	NA	NA	NA	NA
p-Isopropyltoluene	X	X	NA	NA	NA	NA	NA
sec-Butylbenzene	X	X	NA	NA	NA	NA	NA
Styrene	X		NA	NA	NA	4.7	4.7
tert-Butylbenzene	X	X	NA	NA	NA	NA	NA
Tetrachloroethene (PCE)	X	X	NA	NA	0.18	--	0.18
trans-1,2-Dichloroethene	X	X	NA	NA	NA	0.78	0.78
Trichloroethene (TCE)	X	X	NA	NA	42	--	42
Vinyl Chloride	X	X	NA	NA	0.12	--	0.12

Notes:

TEE - terrestial ecological evaluation
MTCA - Model Toxics Control Act
EPA Eco-SSLs - United States Environmental Protection Agency Interim Ecological Soil Screening Levels
mg/kg - milligram per kilogram
Total PCB Aroclors (ND = 0) are the sum of Aroclors with nondetects = 0.
Total PCB Congeners (ND=0) are the sum of congeners, with nondetects = 0.
TEQ = toxic equivalency
ND = 1/2 RDL - calculated using 1/2 the reporting limit for nondetected components
LPAHs = low molecular weight polycyclic aromatic hydrocarbons: naphthalene, acenaphthylene, acenaphethene, fluorene, phenanthrene, and anthracene.
HPAHs = high molecular weight polycyclic aromatic hydrocarbons: fluoranthene, pyrene, benz(a)anthracene, chrysene, total benzofluoranthenes, benzo(a)pyrene, indeno(1,2,3,-c,d)pyrene, dibenzo(a,h)anthracene, and benzo(g,h,i)perylene.
cPAHs = carcinogenic polycyclic aromatic hydrocarbons: benzo(a)pyrene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene.
NA - No applicable TEE value available in MTCA Table 749-3 or found in Oak Ridge National Laboratory's Risk Assessment Information System - Ecological Benchmark Tool for Chemicals
-- = TEE Value identified in higher level sources and not researched
(a) - The wildlife TEE SL criteria from MTCA Table 749-3 for total chlorinated dioxins and total chlorinated furans was applied to Total Dioxin/Furan TEQ
(b) - Based on feedback from Ecology, the Total HPAH or Total LPAH TEE SL was applied to individual HPAHs or LPAHs that did not have an available TEE SL

Table I.2.D. Terrestrial Ecological Benchmarks and Selected TEE Values

South Park Marina Site, Seattle, Washington

		Reported Values from RAIS					
Analyte	CAS	Source	Benchmark	Receptor Organism	Value	Units	
Metals							
Silver	7440-22-4	EPA Eco-SSL	Avian	Avian - herbivore (dove)	69	mg/kg	
			Avian	Avian - insectivore (woodcock)	4.2	mg/kg	
			Avian	Avian - carnivore (hawk)	930	mg/kg	
			Plants	Soybeans, Wheet, Corn, & Sunflower	560	mg/kg	Eliminated - Not applicable to wildlife
			Mammal	Mammal - herbivore (vole)	1500	mg/kg	
			Mammal	Mammal - insectivore (shrew)	14	mg/kg	
			Mammal	Mammal - carnivore (weasel)	990	mg/kg	
Dioxins/Furans							
2,3,7,8-TCDD	1746-01-6	LANL ECORISK	Soil No Effect ESL	Mammalian omnivore	5.8E-07	mg/kg	
			Soil No Effect ESL	Mammalian top carnivore	1.0E-04	mg/kg	
			Soil No Effect ESL	Mammalian insectivore	2.9E-07	mg/kg	
			Soil No Effect ESL	Mammalian herbivore	4.0E-05	mg/kg	
			Soil Low Effect ESL	Mammalian top carnivore	6.8E-04	mg/kg	
			Soil Low Effect ESL	Mammalian insectivore	1.9E-06	mg/kg	
			Soil Low Effect ESL	Mammalian herbivore	2.7E-04	mg/kg	
			Soil Low Effect ESL	Mammalian omnivore	3.8E-06	mg/kg	
Polycyclic Aromatic Hydrocarbons							
1-Methylnaphthalene	90-12-0	EPA Region 4	Invertebrates	Soil Invertebrates	0.14	mg/kg	Eliminated - not applicable to wildlife
			All Receptors	Soil All Receptors	29	mg/kg	Eliminated - value is for Total LPAHs, based on protection of invertebrates, not applicable to wildlife
		EPA Eco-SSL	Mammal	Mammal - herbivore (vole)	350	mg/kg	The Total LPAH TEE SL was applied to individual LPAHs that did not have an available TEE SL.
			Mammal	Mammal - insectivore (shrew)	100	mg/kg	The Total LPAH TEE SL was applied to individual LPAHs that did not have an available TEE SL.
			Mammal	Mammal - carnivore (weasel)	1200	mg/kg	The Total LPAH TEE SL was applied to individual LPAHs that did not have an available TEE SL.
			Invertebrates	Springtale, Potworm, & Earthworm	1200	mg/kg	Eliminated - not applicable to wildlife
2-Methylnaphthalene	91-57-6	LANL ECORISK	Soil No Effect ESL	Mammalian herbivore	110	mg/kg	
			Soil No Effect ESL	Mammalian insectivore	16	mg/kg	
			Soil No Effect ESL	Mammalian omnivore	24	mg/kg	
			Soil No Effect ESL	Mammalian top carnivore	4,900	mg/kg	
			Soil Low Effect ESL	Mammalian herbivore	1,100	mg/kg	
			Soil Low Effect ESL	Mammalian insectivore	160	mg/kg	
			Soil Low Effect ESL	Mammalian top carnivore	49,000	mg/kg	
			Soil Low Effect ESL	Mammalian omnivore	240	mg/kg	
Acenapthene	83-32-9	LANL ECORISK	Soil No Effect ESL	Generic Plant	0.25	mg/kg	Eliminated - not applicable to wildlife
			Soil No Effect ESL	Mammalian herbivore	530	mg/kg	
			Soil No Effect ESL	Mammalian insectivore	130	mg/kg	
			Soil No Effect ESL	Mammalian omnivore	160	mg/kg	
			Soil No Effect ESL	Mammalian top carnivore	29,000	mg/kg	
			Soil Low Effect ESL	Mammalian herbivore	5,300	mg/kg	
			Soil Low Effect ESL	Generic Plant	2	mg/kg	Eliminated - not applicable to wildlife
			Soil Low Effect ESL	Mammalian insectivore	1,300	mg/kg	
			Soil Low Effect ESL	Mammalian omnivore	1,600	mg/kg	
			Soil Low Effect ESL	Mammalian top carnivore	290,000	mg/kg	

Table I.2.D. Terrestrial Ecological Benchmarks and Selected TEE Values

South Park Marina Site, Seattle, Washington

		Reported Values from RAIS					
Analyte	CAS	Source	Benchmark	Receptor Organism	Value	Units	
Acenaphthylene	208-96-8	LANL ECORISK	Soil No Effect ESL	Mammalian herbivore	540	mg/kg	
			Soil No Effect ESL	Mammalian insectivore	120	mg/kg	
			Soil No Effect ESL	Mammalian omnivore	160	mg/kg	
			Soil No Effect ESL	Mammalian top carnivore	28,000	mg/kg	
			Soil Low Effect ESL	Mammalian top carnivore	280,000	mg/kg	
			Soil Low Effect ESL	Mammalian omnivore	1,600	mg/kg	
			Soil Low Effect ESL	Mammalian herbivore	5,400	mg/kg	
			Soil Low Effect ESL	Mammalian insectivore	1,200	mg/kg	
Anthracene	120-12-7	LANL ECORISK	Soil No Effect ESL	Generic Plant	6.8	mg/kg	Eliminated - not applicable to wildlife
			Soil No Effect ESL	Mammalian herbivore	1,200	mg/kg	
			Soil No Effect ESL	Mammalian insectivore	210	mg/kg	
			Soil No Effect ESL	Mammalian omnivore	300	mg/kg	
			Soil No Effect ESL	Mammalian top carnivore	38,000	mg/kg	
			Soil Low Effect ESL	Mammalian herbivore	12,000	mg/kg	
			Soil Low Effect ESL	Generic Plant	9	mg/kg	Eliminated - not applicable to wildlife
			Soil Low Effect ESL	Mammalian insectivore	2,100	mg/kg	
			Soil Low Effect ESL	Mammalian top carnivore	380,000	mg/kg	
			Soil Low Effect ESL	Mammalian omnivore	3,000	mg/kg	
Benzo(g,h,i)perylene	191-24-2	LANL ECORISK	Soil No Effect ESL	Mammalian top carnivore	3,600	mg/kg	
			Soil No Effect ESL	Mammalian herbivore	470	mg/kg	
			Soil No Effect ESL	Mammalian insectivore	25	mg/kg	
			Soil No Effect ESL	Mammalian omnivore	46	mg/kg	
			Soil Low Effect ESL	Mammalian insectivore	250	mg/kg	
			Soil Low Effect ESL	Mammalian herbivore	4,700	mg/kg	
			Soil Low Effect ESL	Mammalian omnivore	460	mg/kg	
			Soil Low Effect ESL	Mammalian top carnivore	36,000	mg/kg	
Fluoranthene	206-44-0	LANL ECORISK	Soil No Effect ESL	Mammalian herbivore	270	mg/kg	
			Soil No Effect ESL	Mammalian insectivore	22	mg/kg	
			Soil No Effect ESL	Mammalian omnivore	38	mg/kg	
			Soil No Effect ESL	Mammalian top carnivore	3,900	mg/kg	
			Soil No Effect ESL	Soil-dwelling invertebrate	10	mg/kg	Eliminated - not applicable to wildlife
			Soil Low Effect ESL	Soil-dwelling invertebrate	23	mg/kg	Eliminated - not applicable to wildlife
			Soil Low Effect ESL	Mammalian top carnivore	39,000	mg/kg	
			Soil Low Effect ESL	Mammalian insectivore	220	mg/kg	
			Soil Low Effect ESL	Mammalian herbivore	2,700	mg/kg	
			Soil Low Effect ESL	Mammalian omnivore	380	mg/kg	

Table I.2.D. Terrestrial Ecological Benchmarks and Selected TEE Values

South Park Marina Site, Seattle, Washington

		Reported Values from RAIS					
Analyte	CAS	Source	Benchmark	Receptor Organism	Value	Units	
Fluorene	86-73-7	LANL ECORISK	Soil No Effect ESL	Mammalian herbivore	1,100	mg/kg	
			Soil No Effect ESL	Mammalian insectivore	250	mg/kg	
			Soil No Effect ESL	Mammalian omnivore	340	mg/kg	
			Soil No Effect ESL	Mammalian top carnivore	50,000	mg/kg	
			Soil No Effect ESL	Soil-dwelling invertebrate	4	mg/kg	Eliminated - not applicable to wildlife
			Soil Low Effect ESL	Mammalian omnivore	680	mg/kg	
			Soil Low Effect ESL	Mammalian insectivore	510	mg/kg	
			Soil Low Effect ESL	Mammalian herbivore	2,300	mg/kg	
			Soil Low Effect ESL	Mammalian top carnivore	100,000	mg/kg	
			Soil Low Effect ESL	Soil-dwelling invertebrate	19	mg/kg	Eliminated - not applicable to wildlife
Naphthalene	91-20-3	LANL ECORISK	Soil No Effect ESL	Mammalian top carnivore	5,800	mg/kg	
			Soil No Effect ESL	Avian herbivore	3.4	mg/kg	
			Soil No Effect ESL	Avian insectivore	15	mg/kg	
			Soil No Effect ESL	Avian omnivore	5.7	mg/kg	
			Soil No Effect ESL	Avian top carnivore	2,100	mg/kg	
			Soil No Effect ESL	Generic Plant	1	mg/kg	Eliminated - not applicable to wildlife
			Soil No Effect ESL	Insectivore / carnivore	78	mg/kg	
			Soil No Effect ESL	Mammalian herbivore	14	mg/kg	
			Soil No Effect ESL	Mammalian insectivore	28	mg/kg	
			Soil No Effect ESL	Mammalian omnivore	9.6	mg/kg	
			Soil Low Effect ESL	Insectivore / carnivore	780	mg/kg	
			Soil Low Effect ESL	Generic Plant	10	mg/kg	Eliminated - not applicable to wildlife
			Soil Low Effect ESL	Avian top carnivore	21,000	mg/kg	
			Soil Low Effect ESL	Avian omnivore	57	mg/kg	
			Soil Low Effect ESL	Avian insectivore	150	mg/kg	
			Soil Low Effect ESL	Avian herbivore	34	mg/kg	
			Soil Low Effect ESL	Mammalian herbivore	40	mg/kg	
			Soil Low Effect ESL	Mammalian insectivore	79	mg/kg	
			Soil Low Effect ESL	Mammalian omnivore	27	mg/kg	
			Soil Low Effect ESL	Mammalian top carnivore	16,000	mg/kg	
Phenanthrene	85-01-8	LANL ECORISK	Soil No Effect ESL	Mammalian herbivore	62	mg/kg	
			Soil No Effect ESL	Mammalian insectivore	11	mg/kg	
			Soil No Effect ESL	Mammalian omnivore	15	mg/kg	
			Soil No Effect ESL	Mammalian top carnivore	1,900	mg/kg	
			Soil No Effect ESL	Soil-dwelling invertebrate	5.5	mg/kg	Eliminated - not applicable to wildlife
			Soil Low Effect ESL	Mammalian insectivore	110	mg/kg	
			Soil Low Effect ESL	Mammalian herbivore	620	mg/kg	
			Soil Low Effect ESL	Mammalian omnivore	150	mg/kg	
			Soil Low Effect ESL	Soil-dwelling invertebrate	12	mg/kg	Eliminated - not applicable to wildlife
			Soil Low Effect ESL	Mammalian top carnivore	19,000	mg/kg	

Table I.2.D. Terrestrial Ecological Benchmarks and Selected TEE Values

South Park Marina Site, Seattle, Washington

		Reported Values from RAIS					
Analyte	CAS	Source	Benchmark	Receptor Organism	Value	Units	
Pyrene	129-00-0	LANL ECORISK	Soil No Effect ESL	Soil-dwelling invertebrate	10	mg/kg	Eliminated - not applicable to wildlife
			Soil No Effect ESL	Avian herbivore	68	mg/kg	
			Soil No Effect ESL	Avian insectivore	33	mg/kg	
			Soil No Effect ESL	Avian omnivore	44	mg/kg	
			Soil No Effect ESL	Avian top carnivore	3,000	mg/kg	
			Soil No Effect ESL	Insectivore / carnivore	160	mg/kg	
			Soil No Effect ESL	Mammalian herbivore	110	mg/kg	
			Soil No Effect ESL	Mammalian insectivore	23	mg/kg	
			Soil No Effect ESL	Mammalian omnivore	31	mg/kg	
			Soil No Effect ESL	Mammalian top carnivore	3,100	mg/kg	
			Soil Low Effect ESL	Insectivore / carnivore	1,600	mg/kg	
			Soil Low Effect ESL	Avian top carnivore	30,000	mg/kg	
			Soil Low Effect ESL	Avian omnivore	440	mg/kg	
			Soil Low Effect ESL	Avian insectivore	330	mg/kg	
			Soil Low Effect ESL	Avian herbivore	680	mg/kg	
			Soil Low Effect ESL	Mammalian omnivore	310	mg/kg	
			Soil Low Effect ESL	Mammalian herbivore	1,100	mg/kg	
			Soil Low Effect ESL	Mammalian insectivore	230	mg/kg	
			Soil Low Effect ESL	Mammalian top carnivore	31,000	mg/kg	
			Soil Low Effect ESL	Soil-dwelling invertebrate	20	mg/kg	Eliminated - not applicable to wildlife
Benzo(a)anthracene	56-55-3	LANL ECORISK	Soil No Effect ESL	Mammalian top carnivore	110	mg/kg	
			Soil No Effect ESL	Avian herbivore	0.73	mg/kg	
			Soil No Effect ESL	Avian insectivore	0.88	mg/kg	
			Soil No Effect ESL	Avian omnivore	0.80	mg/kg	
			Soil No Effect ESL	Avian top carnivore	28	mg/kg	
			Soil No Effect ESL	Generic Plant	18	mg/kg	Eliminated - not applicable to wildlife
			Soil No Effect ESL	Insectivore / carnivore	6.4	mg/kg	
			Soil No Effect ESL	Mammalian herbivore	6.1	mg/kg	
			Soil No Effect ESL	Mammalian insectivore	4.0	mg/kg	
			Soil No Effect ESL	Mammalian omnivore	3.4	mg/kg	
			Soil Low Effect ESL	Insectivore / carnivore	64	mg/kg	
			Soil Low Effect ESL	Generic Plant	180	mg/kg	Eliminated - not applicable to wildlife
			Soil Low Effect ESL	Avian top carnivore	280	mg/kg	
			Soil Low Effect ESL	Avian omnivore	8.0	mg/kg	
			Soil Low Effect ESL	Avian insectivore	8.8	mg/kg	
			Soil Low Effect ESL	Avian herbivore	7.3	mg/kg	
			Soil Low Effect ESL	Mammalian herbivore	61	mg/kg	
			Soil Low Effect ESL	Mammalian insectivore	40	mg/kg	
			Soil Low Effect ESL	Mammalian omnivore	34	mg/kg	
			Soil Low Effect ESL	Mammalian top carnivore	1,100	mg/kg	

Table I.2.D. Terrestrial Ecological Benchmarks and Selected TEE Values

South Park Marina Site, Seattle, Washington

		Reported Values from RAIS					
Analyte	CAS	Source	Benchmark	Receptor Organism	Value	Units	
Benzo(b)fluoranthene	205-99-2	LANL ECORISK	Soil No Effect ESL	Mammalian top carnivore	2,400	mg/kg	
			Soil No Effect ESL	Generic Plant	18	mg/kg	Eliminated - not applicable to wildlife
			Soil No Effect ESL	Mammalian herbivore	130	mg/kg	
			Soil No Effect ESL	Mammalian insectivore	44	mg/kg	
			Soil No Effect ESL	Mammalian omnivore	51	mg/kg	
			Soil Low Effect ESL	Mammalian insectivore	440	mg/kg	
			Soil Low Effect ESL	Generic Plant	180	mg/kg	Eliminated - not applicable to wildlife
			Soil Low Effect ESL	Mammalian herbivore	1,300	mg/kg	
			Soil Low Effect ESL	Mammalian omnivore	510	mg/kg	
			Soil Low Effect ESL	Mammalian top carnivore	24,000	mg/kg	
Benzo(k)fluoranthene	207-08-9	LANL ECORISK	Soil No Effect ESL	Mammalian top carnivore	4,300	mg/kg	
			Soil No Effect ESL	Mammalian herbivore	330	mg/kg	
			Soil No Effect ESL	Mammalian insectivore	71	mg/kg	
			Soil No Effect ESL	Mammalian omnivore	99	mg/kg	
			Soil Low Effect ESL	Mammalian insectivore	710	mg/kg	
			Soil Low Effect ESL	Mammalian herbivore	3,300	mg/kg	
			Soil Low Effect ESL	Mammalian omnivore	990	mg/kg	
			Soil Low Effect ESL	Mammalian top carnivore	43,000	mg/kg	
Chrysene	218-01-9	LANL ECORISK	Soil No Effect ESL	Mammalian herbivore	6.3	mg/kg	
			Soil No Effect ESL	Mammalian insectivore	3.1	mg/kg	
			Soil No Effect ESL	Mammalian omnivore	3.1	mg/kg	
			Soil No Effect ESL	Mammalian top carnivore	110	mg/kg	
			Soil Low Effect ESL	Mammalian herbivore	63	mg/kg	
			Soil Low Effect ESL	Mammalian insectivore	31	mg/kg	
			Soil Low Effect ESL	Mammalian top carnivore	1,100	mg/kg	
			Soil Low Effect ESL	Mammalian omnivore	31	mg/kg	
Dibenzo(a,h)anthracene	53-70-3	LANL ECORISK	Soil No Effect ESL	Mammalian herbivore	84	mg/kg	
			Soil No Effect ESL	Mammalian insectivore	14	mg/kg	
			Soil No Effect ESL	Mammalian omnivore	22	mg/kg	
			Soil No Effect ESL	Mammalian top carnivore	850	mg/kg	
			Soil Low Effect ESL	Mammalian herbivore	840	mg/kg	
			Soil Low Effect ESL	Mammalian insectivore	140	mg/kg	
			Soil Low Effect ESL	Mammalian top carnivore	8,500	mg/kg	
			Soil Low Effect ESL	Mammalian omnivore	220	mg/kg	
Indeno(1,2,3-cd)pyrene	193-39-5	LANL ECORISK	Soil No Effect ESL	Mammalian top carnivore	4,600	mg/kg	
			Soil No Effect ESL	Mammalian herbivore	510	mg/kg	
			Soil No Effect ESL	Mammalian insectivore	71	mg/kg	
			Soil No Effect ESL	Mammalian omnivore	110	mg/kg	
			Soil Low Effect ESL	Mammalian insectivore	710	mg/kg	
			Soil Low Effect ESL	Mammalian herbivore	5,100	mg/kg	
			Soil Low Effect ESL	Mammalian omnivore	1,100	mg/kg	
			Soil Low Effect ESL	Mammalian top carnivore	46,000	mg/kg	

Table I.2.D. Terrestrial Ecological Benchmarks and Selected TEE Values

South Park Marina Site, Seattle, Washington

		Reported Values from RAIS					
Analyte	CAS	Source	Benchmark	Receptor Organism	Value	Units	
Total LPAHs (ND = 1/2 RDL)	N/A	EPA Eco-SSL	Mammal	Mammal - herbivore (vole)	350	mg/kg	
			Mammal	Mammal - insectivore (shrew)	100	mg/kg	
			Mammal	Mammal - carnivore (weasel)	1200	mg/kg	
			Invertebrates	Springtale, Potworm, & Earthworm	1200	mg/kg	Eliminated - not applicable to wildlife
Total HPAHs (ND = 1/2 RDL)	N/A	EPA Eco-SSL	Mammal	Mammal - herbivore (vole)	39	mg/kg	
			Mammal	Mammal - insectivore (shrew)	1.1	mg/kg	
			Mammal	Mammal - carnivore (weasel)	110	mg/kg	
			Invertebrates	Springtale, Potworm, & Earthworm	18	mg/kg	Eliminated - not applicable to wildlife
Semivolatile Organic Compounds							
2,4,6-Trichlorophenol	88-06-2	ORNL	Soil Screening - Invertebrates	Not specified	10	mg/kg	Eliminated - not applicable to wildlife
		EPA Region 4	Soil Mammals	Mammalian Insectivore (shrew)	9.94	mg/kg	EPA Region 4 Value adopted from EPA Region 5
			Soil Invertebrates	Not specified	10	mg/kg	Eliminated - not applicable to wildlife
		EPA Region 6	Soil Invertebrates	Not specified	10	mg/kg	Eliminated - not applicable to wildlife
		EPA Region 5	EPA RCRA Soil	Mammalian Insectivore (shrew)	9.94	mg/kg	
2,4-Dimethylphenol	105-67-9	EPA Region 4	Soil Invertebrates	Not specified	0.04	mg/kg	Eliminated - not applicable to wildlife
		EPA Region 5	EPA RCRA Soil	Plant (not specificed)	0.01	mg/kg	Eliminated - not applicable to wildlife
2,4-Dinitrophenol	51-28-5	ORNL	Soil Screening - Plants	Not specified	20	mg/kg	Eliminated - not applicable to wildlife
		EPA Region 4	Soil Invertebrates	Not specified	0.15	mg/kg	Eliminated - not applicable to wildlife
			Soil Mammals	Mammalian Insectivore (shrew)	0.061	mg/kg	EPA Region 4 Value adopted from EPA Region 5
			Soil Plants	Not specified	20	mg/kg	Eliminated - not applicable to wildlife
		EPA Region 6	Soil Plants	Not specified	20	mg/kg	Eliminated - not applicable to wildlife
		EPA Region 5	EPA RCRA Soil	Mammalian Insectivore (shrew)	0.061	mg/kg	
2-Methylphenol (Cresol, o-)	95-48-7	LANL ECORISK	Soil No Effect ESL	Generic Plant	0.67	mg/kg	Eliminated - not applicable to wildlife
			Soil No Effect ESL	Mammalian herbivore	880	mg/kg	
			Soil No Effect ESL	Mammalian insectivore	1,500	mg/kg	
			Soil No Effect ESL	Mammalian omnivore	580	mg/kg	
			Soil No Effect ESL	Mammalian top carnivore	160,000	mg/kg	
			Soil Low Effect ESL	Mammalian herbivore	8,800	mg/kg	
			Soil Low Effect ESL	Generic Plant	7	mg/kg	Eliminated - not applicable to wildlife
			Soil Low Effect ESL	Mammalian insectivore	15,000	mg/kg	
			Soil Low Effect ESL	Mammalian top carnivore	1,600,000	mg/kg	
			Soil Low Effect ESL	Mammalian omnivore	5,800	mg/kg	
4-Methylphenol (Cresol, p-)	106-44-5	EPA Region 4	Soil Invertebrates	Not specified	0.08	mg/kg	Eliminated - not applicable to wildlife
			Soil Mammals	Mammalian Insectivore (shrew)	163	mg/kg	EPA Region 4 Value adopted from EPA Region 5
		EPA Region 5	EPA RCRA Soil	Mammalian Insectivore (shrew)	163	mg/kg	
4-Nitroaniline	100-01-6	EPA Region 5	EPA RCRA Soil	Mammalian Insectivore (shrew)	21.9	mg/kg	
Benzoic Acid	65-85-0	LANL ECORISK	Soil No Effect ESL	Mammalian top carnivore	2,000	mg/kg	
			Soil No Effect ESL	Mammalian omnivore	1.3	mg/kg	
			Soil No Effect ESL	Mammalian insectivore	1.0	mg/kg	
			Soil No Effect ESL	Mammalian herbivore	4.6	mg/kg	
			Soil Low Effect ESL	Mammalian top carnivore	20,000	mg/kg	
			Soil Low Effect ESL	Mammalian omnivore	13	mg/kg	
			Soil Low Effect ESL	Mammalian herbivore	46	mg/kg	
			Soil Low Effect ESL	Mammalian insectivore	10	mg/kg	

Table I.2.D. Terrestrial Ecological Benchmarks and Selected TEE Values

South Park Marina Site, Seattle, Washington

		Reported Values from RAIS					
Analyte	CAS	Source	Benchmark	Receptor Organism	Value	Units	
Benzyl Alcohol	100-51-6	LANL ECORISK	Soil No Effect ESL	Mammalian top carnivore	110,000	mg/kg	
			Soil No Effect ESL	Mammalian omnivore	120	mg/kg	
			Soil No Effect ESL	Mammalian insectivore	270	mg/kg	
			Soil No Effect ESL	Mammalian herbivore	190	mg/kg	
			Soil Low Effect ESL	Mammalian top carnivore	1,100,000	mg/kg	
			Soil Low Effect ESL	Mammalian omnivore	1,200	mg/kg	
			Soil Low Effect ESL	Mammalian insectivore	2,700	mg/kg	
			Soil Low Effect ESL	Mammalian herbivore	1,900	mg/kg	
Butyl Benzyl Phthalate	85-68-7	LANL ECORISK	Soil No Effect ESL	Mammalian herbivore	2,400	mg/kg	
			Soil No Effect ESL	Mammalian insectivore	90	mg/kg	
			Soil No Effect ESL	Mammalian omnivore	160	mg/kg	
			Soil No Effect ESL	Mammalian top carnivore	23,000	mg/kg	
			Soil Low Effect ESL	Mammalian insectivore	900	mg/kg	
			Soil Low Effect ESL	Mammalian omnivore	1,600	mg/kg	
			Soil Low Effect ESL	Mammalian herbivore	24,000	mg/kg	
			Soil Low Effect ESL	Mammalian top carnivore	230,000	mg/kg	
Bis(2-ethylhexyl)phthalate	117-81-7	LANL ECORISK	Soil No Effect ESL	Mammalian top carnivore	500	mg/kg	
			Soil No Effect ESL	Avian insectivore	0.02	mg/kg	
			Soil No Effect ESL	Avian herbivore	16	mg/kg	
			Soil No Effect ESL	Avian omnivore	0.04	mg/kg	
			Soil No Effect ESL	Avian top carnivore	9.3	mg/kg	
			Soil No Effect ESL	Insectivore / carnivore	0.096	mg/kg	
			Soil No Effect ESL	Mammalian herbivore	1,900	mg/kg	
			Soil No Effect ESL	Mammalian insectivore	0.6	mg/kg	
			Soil No Effect ESL	Mammalian omnivore	1.1	mg/kg	
			Soil Low Effect ESL	Avian herbivore	160	mg/kg	
			Soil Low Effect ESL	Avian insectivore	0.2	mg/kg	
			Soil Low Effect ESL	Avian omnivore	0.4	mg/kg	
			Soil Low Effect ESL	Mammalian top carnivore	5,000	mg/kg	
			Soil Low Effect ESL	Mammalian omnivore	11	mg/kg	
			Soil Low Effect ESL	Mammalian insectivore	6.0	mg/kg	
			Soil Low Effect ESL	Mammalian herbivore	19,000	mg/kg	
			Soil Low Effect ESL	Insectivore / carnivore	0.96	mg/kg	
			Soil Low Effect ESL	Avian top carnivore	93	mg/kg	
Carbazole	86-74-8	LANL ECORISK	Soil No Effect ESL	Mammalian top carnivore	13,000	mg/kg	
			Soil No Effect ESL	Mammalian herbivore	140	mg/kg	
			Soil No Effect ESL	Mammalian insectivore	110	mg/kg	
			Soil No Effect ESL	Mammalian omnivore	79	mg/kg	
			Soil Low Effect ESL	Mammalian top carnivore	130,000	mg/kg	
			Soil Low Effect ESL	Mammalian herbivore	1,400	mg/kg	
			Soil Low Effect ESL	Mammalian insectivore	1,100	mg/kg	
			Soil Low Effect ESL	Mammalian omnivore	790	mg/kg	

Table I.2.D. Terrestrial Ecological Benchmarks and Selected TEE Values

South Park Marina Site, Seattle, Washington

		Reported Values from RAIS					
Analyte	CAS	Source	Benchmark	Receptor Organism	Value	Units	
Dibenzofuran	132-64-9	LANL ECORISK	Soil Low Effect ESL	Generic Plant	61	mg/kg	Eliminated - not applicable to wildlife
			Soil No Effect ESL	Generic Plant	6.1	mg/kg	Eliminated - not applicable to wildlife
		EPA Region 4	Soil Invertebrates	Not specified	0.15	mg/kg	Eliminated - not applicable to wildlife
			Soil Plants	Not specified	6.1	mg/kg	Eliminated - not applicable to wildlife
Diethyl Phthalate	84-66-2	LANL ECORISK	Soil No Effect ESL	Mammalian top carnivore	2,500,000	mg/kg	
			Soil No Effect ESL	Mammalian omnivore	3,600	mg/kg	
			Soil No Effect ESL	Mammalian insectivore	3,600	mg/kg	
			Soil No Effect ESL	Mammalian herbivore	8,800	mg/kg	
			Soil No Effect ESL	Generic Plant	100	mg/kg	Eliminated - not applicable to wildlife
			Soil Low Effect ESL	Generic Plant	1,000	mg/kg	Eliminated - not applicable to wildlife
			Soil Low Effect ESL	Mammalian herbivore	88,000	mg/kg	
			Soil Low Effect ESL	Mammalian omnivore	36,000	mg/kg	
			Soil Low Effect ESL	Mammalian top carnivore	25,000,000	mg/kg	
			Soil Low Effect ESL	Mammalian insectivore	36,000	mg/kg	
Dimethyl Phthalate	131-11-3	LANL ECORISK	Soil No Effect ESL	Soil-dwelling invertebrate	10	mg/kg	Eliminated - not applicable to wildlife
			Soil No Effect ESL	Mammalian top carnivore	48,000	mg/kg	
			Soil No Effect ESL	Mammalian omnivore	38	mg/kg	
			Soil No Effect ESL	Mammalian insectivore	80	mg/kg	
			Soil No Effect ESL	Mammalian herbivore	60	mg/kg	
			Soil Low Effect ESL	Mammalian herbivore	740	mg/kg	
			Soil Low Effect ESL	Mammalian insectivore	980	mg/kg	
			Soil Low Effect ESL	Mammalian top carnivore	590,000	mg/kg	
			Soil Low Effect ESL	Soil-dwelling invertebrate	100	mg/kg	Eliminated - not applicable to wildlife
			Soil Low Effect ESL	Mammalian omnivore	460	mg/kg	
Di-n-octylphthalate	117-84-0	LANL ECORISK	Soil No Effect ESL	Mammalian top carnivore	1,300	mg/kg	
			Soil No Effect ESL	Mammalian herbivore	8,400	mg/kg	
			Soil No Effect ESL	Mammalian insectivore	0.91	mg/kg	
			Soil No Effect ESL	Mammalian omnivore	1.8	mg/kg	
			Soil Low Effect ESL	Mammalian herbivore	84,000	mg/kg	
			Soil Low Effect ESL	Mammalian insectivore	9.1	mg/kg	
			Soil Low Effect ESL	Mammalian omnivore	18	mg/kg	
			Soil Low Effect ESL	Mammalian top carnivore	13,000	mg/kg	

Table I.2.D. Terrestrial Ecological Benchmarks and Selected TEE Values

South Park Marina Site, Seattle, Washington

		Reported Values from RAIS					
Analyte	CAS	Source	Benchmark	Receptor Organism	Value	Units	
Di-n-Butyl Phthalate	84-74-2	LANL ECORISK	Soil No Effect ESL	Mammalian top carnivore	62,000	mg/kg	
			Soil No Effect ESL	Mammalian omnivore	360	mg/kg	
			Soil No Effect ESL	Mammalian insectivore	180	mg/kg	
			Soil No Effect ESL	Mammalian herbivore	17,000	mg/kg	
			Soil No Effect ESL	Insectivore / carnivore	0.052	mg/kg	
			Soil No Effect ESL	Generic Plant	160	mg/kg	Eliminated - not applicable to wildlife
			Soil No Effect ESL	Avian top carnivore	2	mg/kg	
			Soil No Effect ESL	Avian herbivore	0.38	mg/kg	
			Soil No Effect ESL	Avian insectivore	0.011	mg/kg	
			Soil No Effect ESL	Avian omnivore	0.021	mg/kg	
			Soil Low Effect ESL	Mammalian herbivore	40,000	mg/kg	
			Soil Low Effect ESL	Avian herbivore	3.8	mg/kg	
			Soil Low Effect ESL	Avian insectivore	0.11	mg/kg	
			Soil Low Effect ESL	Avian omnivore	0.21	mg/kg	
			Soil Low Effect ESL	Avian top carnivore	20	mg/kg	
			Soil Low Effect ESL	Generic Plant	600	mg/kg	Eliminated - not applicable to wildlife
			Soil Low Effect ESL	Insectivore / carnivore	0.52	mg/kg	
			Soil Low Effect ESL	Mammalian insectivore	450	mg/kg	
			Soil Low Effect ESL	Mammalian omnivore	860	mg/kg	
			Soil Low Effect ESL	Mammalian top carnivore	140,000	mg/kg	
Hexachlorobutadiene	87-68-3	EPA Region 4	Soil Invertebrates	Not specified	0.009	mg/kg	Eliminated - not applicable to wildlife
			Soil Mammals	Mammalian Insectivore (shrew)	0.04	mg/kg	EPA Region 4 Value adopted from EPA Region 5
		EPA Region 5	EPA RCRA Soil	Mammalian Insectivore (shrew)	0.0398	mg/kg	
Hexachloroethane	67-72-1	EPA Region 4	Soil Invertebrates	Not specified	0.024	mg/kg	Eliminated - not applicable to wildlife
			Soil Mammals	Mammalian Insectivore (shrew)	0.6	mg/kg	EPA Region 4 Value adopted from EPA Region 5
		EPA Region 5	EPA RCRA Soil	Mammalian Insectivore (shrew)	0.596	mg/kg	
Isophorone	78-59-1	EPA Region 5	EPA RCRA Soil	Mammalian Insectivore (shrew)	139	mg/kg	
Nitrobenzene	98-95-3	LANL ECORISK	Soil No Effect ESL	Soil-dwelling invertebrate	2.2	mg/kg	Eliminated - not applicable to wildlife
			Soil No Effect ESL	Mammalian herbivore	6.7	mg/kg	
			Soil No Effect ESL	Mammalian insectivore	21	mg/kg	
			Soil No Effect ESL	Mammalian omnivore	4.8	mg/kg	
			Soil No Effect ESL	Mammalian top carnivore	4,100	mg/kg	
			Soil Low Effect ESL	Mammalian omnivore	48	mg/kg	
			Soil Low Effect ESL	Mammalian insectivore	210	mg/kg	
			Soil Low Effect ESL	Mammalian herbivore	67	mg/kg	
			Soil Low Effect ESL	Mammalian top carnivore	41,000	mg/kg	
			Soil Low Effect ESL	Soil-dwelling invertebrate	22	mg/kg	Eliminated - not applicable to wildlife
N-Nitrosodiphenylamine	86-30-6	ORNL	Soil Screening - Invertebrates	Not specified	20	mg/kg	Eliminated - not applicable to wildlife
		EPA Region 4	Soil Invertebrates	Not specified	20	mg/kg	Eliminated - not applicable to wildlife
			Soil Mammals	Mammalian Insectivore (shrew)	0.545	mg/kg	EPA Region 4 Value adopted from EPA Region 5
		EPA Region 5	EPA RCRA Soil	Mammalian Insectivore (shrew)	0.545	mg/kg	
		EPA Region 6	Soil Invertebrates	Not specified	20	mg/kg	Eliminated - not applicable to wildlife

Table I.2.D. Terrestrial Ecological Benchmarks and Selected TEE Values

South Park Marina Site, Seattle, Washington

		Reported Values from RAIS					
Analyte	CAS	Source	Benchmark	Receptor Organism	Value	Units	
Phenol	108-95-2	LANL ECORISK	Soil No Effect ESL	Soil-dwelling invertebrate	1.8	mg/kg	Eliminated - not applicable to wildlife
			Soil No Effect ESL	Mammalian top carnivore	43,000	mg/kg	
			Soil No Effect ESL	Generic Plant	0.79	mg/kg	Eliminated - not applicable to wildlife
			Soil No Effect ESL	Mammalian herbivore	47	mg/kg	
			Soil No Effect ESL	Mammalian insectivore	640	mg/kg	
			Soil No Effect ESL	Mammalian omnivore	37	mg/kg	
			Soil Low Effect ESL	Mammalian insectivore	6,400	mg/kg	
			Soil Low Effect ESL	Mammalian herbivore	470	mg/kg	
			Soil Low Effect ESL	Generic Plant	8	mg/kg	Eliminated - not applicable to wildlife
			Soil Low Effect ESL	Mammalian omnivore	370	mg/kg	
			Soil Low Effect ESL	Mammalian top carnivore	430,000	mg/kg	
			Soil Low Effect ESL	Soil-dwelling invertebrate	18	mg/kg	Eliminated - not applicable to wildlife
Pesticides							
Endosulfan I	959-98-8	EPA Region 4	Soil Mammals	Mammalian Insectivore (shrew)	0.119	mg/kg	EPA Region 4 Value adopted from EPA Region 5
			Soil Invertebrates	Not specified	0.0009	mg/kg	Eliminated - not applicable to wildlife
		EPA Region 5	EPA RCRA Soil	Mammalian Insectivore (shrew)	0.119	mg/kg	
Endrin aldehyde	7421-93-4	EPA Region 5	EPA RCRA Soil	Mammalian Insectivore (shrew)	0.0105	mg/kg	
Benzene, Toluene, Ethylbenzene, and Total Xylenes							
Benzene	71-43-2	LANL ECORISK	Soil No Effect ESL	Mammalian omnivore	24	mg/kg	
			Soil No Effect ESL	Mammalian insectivore	49	mg/kg	
			Soil No Effect ESL	Mammalian herbivore	38	mg/kg	
			Soil No Effect ESL	Mammalian top carnivore	18,000	mg/kg	
			Soil Low Effect ESL	Mammalian top carnivore	180,000	mg/kg	
			Soil Low Effect ESL	Mammalian omnivore	240	mg/kg	
			Soil Low Effect ESL	Mammalian insectivore	490	mg/kg	
			Soil Low Effect ESL	Mammalian herbivore	380	mg/kg	
Toluene	108-88-3	LANL ECORISK	Soil No Effect ESL	Generic Plant	200	mg/kg	Eliminated - not applicable to wildlife
			Soil No Effect ESL	Mammalian herbivore	66	mg/kg	
			Soil No Effect ESL	Mammalian insectivore	23	mg/kg	
			Soil No Effect ESL	Mammalian omnivore	25	mg/kg	
			Soil No Effect ESL	Mammalian top carnivore	12,000	mg/kg	
			Soil Low Effect ESL	Mammalian herbivore	660	mg/kg	
			Soil Low Effect ESL	Generic Plant	2,000	mg/kg	Eliminated - not applicable to wildlife
			Soil Low Effect ESL	Mammalian insectivore	230	mg/kg	
			Soil Low Effect ESL	Mammalian omnivore	250	mg/kg	
			Soil Low Effect ESL	Mammalian top carnivore	120,000	mg/kg	
Ethylbenzene	100-41-4	EPA Region 4	Soil Invertebrates	Not specified	0.27	mg/kg	Eliminated - not applicable to wildlife
			Soil Mammals	Mammalian Insectivore (shrew)	5.16	mg/kg	EPA Region 4 Value adopted from EPA Region 5
		EPA Region 5	EPA RCRA Soil	Mammalian Insectivore (shrew)	5.16	mg/kg	

Table I.2.D. Terrestrial Ecological Benchmarks and Selected TEE Values

South Park Marina Site, Seattle, Washington

		Reported Values from RAIS					
Analyte	CAS	Source	Benchmark	Receptor Organism	Value	Units	
Xylene (Total)	1330-20-7	LANL ECORISK	Soil No Effect ESL	Mammalian top carnivore	750	mg/kg	
			Soil No Effect ESL	Avian herbivore	89	mg/kg	
			Soil No Effect ESL	Avian insectivore	41	mg/kg	
			Soil No Effect ESL	Avian omnivore	56	mg/kg	
			Soil No Effect ESL	Avian top carnivore	13,000	mg/kg	
			Soil No Effect ESL	Generic Plant	100	mg/kg	Eliminated - not applicable to wildlife
			Soil No Effect ESL	Insectivore / carnivore	190	mg/kg	
			Soil No Effect ESL	Mammalian herbivore	7.6	mg/kg	
			Soil No Effect ESL	Mammalian insectivore	1.4	mg/kg	
			Soil No Effect ESL	Mammalian omnivore	1.9	mg/kg	
			Soil Low Effect ESL	Avian insectivore	410	mg/kg	
			Soil Low Effect ESL	Avian herbivore	890	mg/kg	
			Soil Low Effect ESL	Avian omnivore	560	mg/kg	
			Soil Low Effect ESL	Avian top carnivore	130,000	mg/kg	
			Soil Low Effect ESL	Generic Plant	1,000	mg/kg	Eliminated - not applicable to wildlife
			Soil Low Effect ESL	Insectivore / carnivore	1,900	mg/kg	
			Soil Low Effect ESL	Mammalian herbivore	9.5	mg/kg	
			Soil Low Effect ESL	Mammalian insectivore	1.8	mg/kg	
			Soil Low Effect ESL	Mammalian omnivore	2.4	mg/kg	
			Soil Low Effect ESL	Mammalian top carnivore	930	mg/kg	
Volatile Organic Compounds							
1,1,2-Trichloroethane	79-00-5	EPA Region 4	Soil Invertebrates	Not specified	0.32	mg/kg	Eliminated - not applicable to wildlife
			Soil Mammals	Mammalian Insectivore (shrew)	28.6	mg/kg	EPA Region 4 Value adopted from EPA Region 5
		EPA Region 5	EPA RCRA Soil	Mammalian Insectivore (shrew)	28.6	mg/kg	
1,1-Dichloroethane	75-34-3	LANL ECORISK	Soil No Effect ESL	Mammalian top carnivore	250,000	mg/kg	
			Soil No Effect ESL	Mammalian omnivore	210	mg/kg	
			Soil No Effect ESL	Mammalian insectivore	290	mg/kg	
			Soil No Effect ESL	Mammalian herbivore	410	mg/kg	
			Soil Low Effect ESL	Mammalian top carnivore	2,500,000	mg/kg	
			Soil Low Effect ESL	Mammalian omnivore	2,100	mg/kg	
			Soil Low Effect ESL	Mammalian herbivore	4,100	mg/kg	
			Soil Low Effect ESL	Mammalian insectivore	2,900	mg/kg	
1,1-Dichloroethene	75-35-4	LANL ECORISK	Soil No Effect ESL	Mammalian herbivore	44	mg/kg	
			Soil No Effect ESL	Mammalian insectivore	11	mg/kg	
			Soil No Effect ESL	Mammalian omnivore	14	mg/kg	
			Soil No Effect ESL	Mammalian top carnivore	14,000	mg/kg	
			Soil Low Effect ESL	Mammalian herbivore	440	mg/kg	
			Soil Low Effect ESL	Mammalian insectivore	110	mg/kg	
			Soil Low Effect ESL	Mammalian omnivore	140	mg/kg	
			Soil Low Effect ESL	Mammalian top carnivore	140,000	mg/kg	
1,2,3-Trichloropropane	96-18-4	EPA Region 5	EPA RCRA Soil	Mammalian Insectivore (shrew)	3.36	mg/kg	

Table I.2.D. Terrestrial Ecological Benchmarks and Selected TEE Values

South Park Marina Site, Seattle, Washington

		Reported Values from RAIS					
Analyte	CAS	Source	Benchmark	Receptor Organism	Value	Units	
1,2,4-Trichlorobenzene	120-82-1	LANL ECORISK	Soil Low Effect ESL	Mammalian insectivore	2.7	mg/kg	
			Soil Low Effect ESL	Mammalian omnivore	5.1	mg/kg	
			Soil Low Effect ESL	Mammalian top carnivore	1100	mg/kg	
			Soil Low Effect ESL	Soil-dwelling invertebrate	12	mg/kg	Eliminated - not applicable to wildlife
			Soil No Effect ESL	Mammalian insectivore	0.27	mg/kg	
			Soil No Effect ESL	Mammalian omnivore	0.51	mg/kg	
			Soil No Effect ESL	Mammalian top carnivore	110	mg/kg	
			Soil No Effect ESL	Soil-dwelling invertebrate	1.2	mg/kg	Eliminated - not applicable to wildlife
			Soil Low Effect ESL	Mammalian herbivore	120	mg/kg	
			Soil No Effect ESL	Mammalian herbivore	12	mg/kg	
1,2,4-Trimethylbenzene	95-63-6	EPA Region 4	Soil Invertebrates	Not specified	0.09	mg/kg	Eliminated - not applicable to wildlife
1,2-Dichlorobenzene	95-50-1	LANL ECORISK	Soil No Effect ESL	Mammalian herbivore	12	mg/kg	
			Soil No Effect ESL	Mammalian insectivore	0.92	mg/kg	
			Soil No Effect ESL	Mammalian omnivore	1.5	mg/kg	
			Soil No Effect ESL	Mammalian top carnivore	480	mg/kg	
			Soil Low Effect ESL	Mammalian herbivore	120	mg/kg	
			Soil Low Effect ESL	Mammalian insectivore	9.2	mg/kg	
			Soil Low Effect ESL	Mammalian top carnivore	4,800	mg/kg	
			Soil Low Effect ESL	Mammalian omnivore	15	mg/kg	
1,3,5-Trimethylbenzene	108-67-8	EPA Region 4	Soil Invertebrates	Not specified	0.16	mg/kg	Eliminated - not applicable to wildlife
1,3-Dichlorobenzene	541-73-1	LANL ECORISK	Soil No Effect ESL	Mammalian herbivore	13	mg/kg	
			Soil No Effect ESL	Mammalian insectivore	0.74	mg/kg	
			Soil No Effect ESL	Mammalian omnivore	1.2	mg/kg	
			Soil No Effect ESL	Mammalian top carnivore	380	mg/kg	
			Soil Low Effect ESL	Mammalian herbivore	130	mg/kg	
			Soil Low Effect ESL	Mammalian insectivore	7.4	mg/kg	
			Soil Low Effect ESL	Mammalian omnivore	12	mg/kg	
			Soil Low Effect ESL	Mammalian top carnivore	3,800	mg/kg	
1,4-Dichlorobenzene	106-46-7	LANL ECORISK	Soil No Effect ESL	Mammalian omnivore	1.5	mg/kg	
			Soil No Effect ESL	Mammalian top carnivore	470	mg/kg	
			Soil No Effect ESL	Soil-dwelling invertebrate	1.2	mg/kg	Eliminated - not applicable to wildlife
			Soil No Effect ESL	Mammalian insectivore	0.89	mg/kg	
			Soil No Effect ESL	Mammalian herbivore	12	mg/kg	
			Soil Low Effect ESL	Soil-dwelling invertebrate	12	mg/kg	Eliminated - not applicable to wildlife
			Soil Low Effect ESL	Mammalian top carnivore	1,800	mg/kg	
			Soil Low Effect ESL	Mammalian insectivore	3.5	mg/kg	
			Soil Low Effect ESL	Mammalian herbivore	49	mg/kg	
			Soil Low Effect ESL	Mammalian omnivore	6	mg/kg	

Table I.2.D. Terrestrial Ecological Benchmarks and Selected TEE Values

South Park Marina Site, Seattle, Washington

		Reported Values from RAIS					
Analyte	CAS	Source	Benchmark	Receptor Organism	Value	Units	
2-Butanone	78-93-3	LANL ECORISK	Soil No Effect ESL	Mammalian omnivore	350	mg/kg	
			Soil No Effect ESL	Mammalian top carnivore	1,300,000	mg/kg	
			Soil No Effect ESL	Mammalian insectivore	2,700	mg/kg	
			Soil No Effect ESL	Mammalian herbivore	470	mg/kg	
			Soil Low Effect ESL	Mammalian top carnivore	3,500,000	mg/kg	
			Soil Low Effect ESL	Mammalian omnivore	920	mg/kg	
			Soil Low Effect ESL	Mammalian insectivore	6,900	mg/kg	
			Soil Low Effect ESL	Mammalian herbivore	1,200	mg/kg	
Acetone	67-64-1	LANL ECORISK	Soil No Effect ESL	Mammalian top carnivore	7,800	mg/kg	
			Soil No Effect ESL	Avian herbivore	7.5	mg/kg	
			Soil No Effect ESL	Avian insectivore	170	mg/kg	
			Soil No Effect ESL	Avian omnivore	14	mg/kg	
			Soil No Effect ESL	Avian top carnivore	66,000	mg/kg	
			Soil No Effect ESL	Insectivore / carnivore	840	mg/kg	
			Soil No Effect ESL	Mammalian herbivore	1.6	mg/kg	
			Soil No Effect ESL	Mammalian insectivore	15	mg/kg	
			Soil No Effect ESL	Mammalian omnivore	1.2	mg/kg	
			Soil Low Effect ESL	Avian insectivore	1,700	mg/kg	
			Soil Low Effect ESL	Avian herbivore	75	mg/kg	
			Soil Low Effect ESL	Avian omnivore	140	mg/kg	
			Soil Low Effect ESL	Avian top carnivore	660,000	mg/kg	
			Soil Low Effect ESL	Insectivore / carnivore	8,400	mg/kg	
			Soil Low Effect ESL	Mammalian herbivore	8	mg/kg	
			Soil Low Effect ESL	Mammalian insectivore	79	mg/kg	
			Soil Low Effect ESL	Mammalian omnivore	6.3	mg/kg	
			Soil Low Effect ESL	Mammalian top carnivore	39,000	mg/kg	
Bromomethane	74-83-9	EPA Region 4	Soil Mammals	Mammalian Insectivore (meadow mole)	0.24	mg/kg	EPA Region 4 Value adopted from EPA Region 5
			Soil Invertebrates	Not specified	0.002	mg/kg	Eliminated - not applicable to wildlife
		EPA Region 5	EPA RCRA Soil	Mammalian Insectivore (meadow mole)	0.235	mg/kg	
Carbon Disulfide	75-15-0	LANL ECORISK	Soil No Effect ESL	Mammalian top carnivore	190	mg/kg	
			Soil No Effect ESL	Mammalian omnivore	0.81	mg/kg	
			Soil No Effect ESL	Mammalian insectivore	1.2	mg/kg	
			Soil No Effect ESL	Mammalian herbivore	1.4	mg/kg	
			Soil Low Effect ESL	Mammalian top carnivore	1,900	mg/kg	
			Soil Low Effect ESL	Mammalian omnivore	8.1	mg/kg	
			Soil Low Effect ESL	Mammalian insectivore	12	mg/kg	
			Soil Low Effect ESL	Mammalian herbivore	14	mg/kg	

Table I.2.D. Terrestrial Ecological Benchmarks and Selected TEE Values

South Park Marina Site, Seattle, Washington

		Reported Values from RAIS					
Analyte	CAS	Source	Benchmark	Receptor Organism	Value	Units	
Chlorobenzene	108-90-7	LANL ECORISK	Soil No Effect ESL	Mammalian herbivore	170	mg/kg	
			Soil No Effect ESL	Mammalian insectivore	43	mg/kg	
			Soil No Effect ESL	Mammalian omnivore	53	mg/kg	
			Soil No Effect ESL	Mammalian top carnivore	25,000	mg/kg	
			Soil No Effect ESL	Soil-dwelling invertebrate	2.4	mg/kg	Eliminated - not applicable to wildlife
			Soil Low Effect ESL	Mammalian insectivore	430	mg/kg	
			Soil Low Effect ESL	Mammalian herbivore	1,700	mg/kg	
			Soil Low Effect ESL	Mammalian omnivore	530	mg/kg	
			Soil Low Effect ESL	Mammalian top carnivore	250,000	mg/kg	
			Soil Low Effect ESL	Soil-dwelling invertebrate	24	mg/kg	Eliminated - not applicable to wildlife
cis-1,2-Dichloroethene (DCE)	156-59-2	EPA Region 4	Soil Invertebrates	Not specified	0.04	mg/kg	Eliminated - not applicable to wildlife
1,2-Dichloroethene [Mixed cis/trans isomers]	540-59-0	LANL ECORISK	Soil No Effect ESL	Mammalian herbivore	64	mg/kg	
			Soil No Effect ESL	Mammalian insectivore	24	mg/kg	
			Soil No Effect ESL	Mammalian omnivore	25	mg/kg	
			Soil No Effect ESL	Mammalian top carnivore	25,000	mg/kg	
			Soil Low Effect ESL	Mammalian insectivore	240	mg/kg	
			Soil Low Effect ESL	Mammalian herbivore	640	mg/kg	
			Soil Low Effect ESL	Mammalian omnivore	250	mg/kg	
			Soil Low Effect ESL	Mammalian top carnivore	250,000	mg/kg	
trans-1,2-Dichloroethene	156-60-5	EPA Region 4	Soil Invertebrates	Not specified	0.04	mg/kg	Eliminated - not applicable to wildlife
			Soil Mammals	Mammalian Insectivore (shrew)	0.784	mg/kg	EPA Region 4 Value adopted from EPA Region 5
		EPA Region 5	EPA RCRA Soil	Mammalian Insectivore (shrew)	0.784	mg/kg	
Isopropylbenzene [Cumene]	98-82-8	EPA Region 4	Soil Invertebrates	Not specified	0.04	mg/kg	Eliminated - not applicable to wildlife
Methylene Chloride	75-09-2	LANL ECORISK	Soil No Effect ESL	Mammalian herbivore	3.8	mg/kg	
			Soil No Effect ESL	Generic Plant	1,600	mg/kg	Eliminated - not applicable to wildlife
			Soil No Effect ESL	Mammalian top carnivore	4,300	mg/kg	
			Soil No Effect ESL	Mammalian insectivore	9.2	mg/kg	
			Soil No Effect ESL	Mammalian omnivore	2.6	mg/kg	
			Soil Low Effect ESL	Mammalian insectivore	79	mg/kg	
			Soil Low Effect ESL	Mammalian top carnivore	36,000	mg/kg	
			Soil Low Effect ESL	Mammalian omnivore	22	mg/kg	
			Soil Low Effect ESL	Mammalian herbivore	32	mg/kg	
			Soil Low Effect ESL	Generic Plant	16,000	mg/kg	Eliminated - not applicable to wildlife
p-Isopropyltoluene [Cymene]	99-87-6	EPA Region 4	Soil Invertebrates	Not specified	0.18	mg/kg	Eliminated - not applicable to wildlife
Styrene	100-42-5	LANL ECORISK	Soil No Effect ESL	Generic Plant	3.2	mg/kg	Eliminated - not applicable to wildlife
			Soil No Effect ESL	Soil-dwelling invertebrate	1.2	mg/kg	Eliminated - not applicable to wildlife
			Soil Low Effect ESL	Generic Plant	32	mg/kg	Eliminated - not applicable to wildlife
			Soil Low Effect ESL	Soil-dwelling invertebrate	12	mg/kg	Eliminated - not applicable to wildlife
		ORNL	Soil Screening - Plants	Not specified	300	mg/kg	Eliminated - not applicable to wildlife
		EPA Region 4	Soil Plants	Not specified	3.2	mg/kg	Eliminated - not applicable to wildlife
			Soil Invertebrates	Not specified	1.2	mg/kg	Eliminated - not applicable to wildlife
		EPA Region 5	EPA RCRA Soil	Mammalian Insectivore (shrew)	4.69	mg/kg	
		EPA Region 6	Soil Plants	Not specified	300	mg/kg	Eliminated - not applicable to wildlife

Table I.2.D. Terrestrial Ecological Benchmarks and Selected TEE Values

South Park Marina Site, Seattle, Washington

		Reported Values from RAIS					
Analyte	CAS	Source	Benchmark	Receptor Organism	Value	Units	
Tetrachloroethene (PCE)	127-18-4	LANL ECORISK	Soil No Effect ESL	Mammalian herbivore	9.5	mg/kg	
			Soil No Effect ESL	Generic Plant	10	mg/kg	Eliminated - not applicable to wildlife
			Soil No Effect ESL	Mammalian insectivore	0.18	mg/kg	
			Soil No Effect ESL	Mammalian top carnivore	120	mg/kg	
			Soil No Effect ESL	Mammalian omnivore	0.35	mg/kg	
			Soil Low Effect ESL	Mammalian top carnivore	630	mg/kg	
			Soil Low Effect ESL	Mammalian omnivore	1.7	mg/kg	
			Soil Low Effect ESL	Mammalian insectivore	0.94	mg/kg	
			Soil Low Effect ESL	Mammalian herbivore	47	mg/kg	
			Soil Low Effect ESL	Generic Plant	100	mg/kg	Eliminated - not applicable to wildlife
Trichloroethene (TCE)	79-01-6	LANL ECORISK	Soil No Effect ESL	Mammalian top carnivore	42,000	mg/kg	
			Soil No Effect ESL	Mammalian omnivore	54	mg/kg	
			Soil No Effect ESL	Mammalian insectivore	42	mg/kg	
			Soil No Effect ESL	Mammalian herbivore	190	mg/kg	
			Soil Low Effect ESL	Mammalian top carnivore	420,000	mg/kg	
			Soil Low Effect ESL	Mammalian omnivore	540	mg/kg	
			Soil Low Effect ESL	Mammalian herbivore	1,900	mg/kg	
			Soil Low Effect ESL	Mammalian insectivore	420	mg/kg	
Vinyl Chloride	75-01-4	LANL ECORISK	Soil No Effect ESL	Mammalian top carnivore	110	mg/kg	
			Soil No Effect ESL	Mammalian insectivore	0.12	mg/kg	
			Soil No Effect ESL	Mammalian omnivore	0.13	mg/kg	
			Soil No Effect ESL	Mammalian herbivore	0.34	mg/kg	
			Soil Low Effect ESL	Mammalian top carnivore	1,100	mg/kg	
			Soil Low Effect ESL	Mammalian omnivore	1.3	mg/kg	
			Soil Low Effect ESL	Mammalian insectivore	1.2	mg/kg	
			Soil Low Effect ESL	Mammalian herbivore	3.4	mg/kg	

Notes:

RAIS = Oak Ridge National Laboratory's Risk Assessment Information System - Ecological Benchmark Tool for Chemicals

mg/kg = milligrams per kilogram

EPA Eco-SSLs = United States Environmental Protection Agency Interim Ecological Soil Screening Levels

LANL ECORISK = Los Alomos National Lab ECORISK database

ESL = ecological screening level

ND = 1/2 RDL - calculated using 1/2 the reporting limit for nondetected components

LPAHs = low molecular weight polycyclic aromatic hydrocarbons: naphthalene, acenaphthylene, acenaphethene, fluorene, phenanthrene, and anthracene.

HPAHs = high molecular weight polycyclic aromatic hydrocarbons: fluoranthene, pyrene, benz(a)anthracene, chrysene, total benzofluoranthenes, benzo(a)pyrene, indeno(1,2,3,-c,d)pyrene, dibenzo(a,h)anthracene, and benzo(g,h,i)perylene.

Grey highlight indicates an ecological screening value was eliminated as not applicable to wildlife

Green highlight indicates the lowest available wildlife value that was selected as the Terrestrial Ecological Evaluation Screening Level

Table I.2.E. Derivation of Preliminary RI SLs - Soil Gas

South Park Marina Site, Seattle, Washington

		Source of Preliminary RI SLs	
Analyte	**Unit**	**MTCA Method B Unrestricted Use Subslab Soil Gas SL**	**Adjusted Commercial Worker Exposure Subslab Soil Gas SL**
Volatile Organic Compounds (VOCs)			
1,1,1-Trichloroethane	ug/m^3	76,000	650,000
1,1,2,2-Tetrachloroethane	ug/m^3	1.4	6.7
1,1,2-Trichloroethane	ug/m^3	3	24
1,1,2-Trichlorotrifluoroethane	ug/m^3	76,000	650,000
1,1-Dichloroethane	ug/m^3	52	240
1,1-Dichloroethene	ug/m^3	3,000	26,000
1,2,4-Trichlorobenzene	ug/m^3	30	260
1,2,4-Trimethylbenzene	ug/m^3	910	7800
1,2-Dibromoethane (EDB)	ug/m^3	0.14	0.65
1,2-Dichlorobenzene	ug/m^3	3,000	26,000
1,2-Dichloroethane (EDC)	ug/m^3	3.2	15
1,2-Dichloropropane	ug/m^3	23	110
1,3,5-Trimethylbenzene	ug/m^3	910	7,800
1,3-Dichlorobenzene	ug/m^3	na	na
1,4-Dichlorobenzene	ug/m^3	7.6	35
1,4-Dioxane	ug/m^3	17	78
1-Propene	ug/m^3	na	na
2-Butanone	ug/m^3	76,000	650,000
2-Chlorotoluene	ug/m^3	na	na
2-Hexanone	ug/m^3	460	3,900
4-Methyl-2-pentanone	ug/m^3	46,000	390,000
Acetone	ug/m^3	na	na
Acrolein	ug/m^3	0.3	2.6
Allyl Chloride	ug/m^3	14	65
Bromodichloromethane	ug/m^3	2.3	11
Bromoform	ug/m^3	76	350
Bromomethane	ug/m^3	76	650
Butane	ug/m^3	na	na
Carbon Disulfide	ug/m^3	11,000	91,000
Carbon Tetrachloride	ug/m^3	14	65
Chlorobenzene	ug/m^3	760	6500
Chloroethane	ug/m^3	150,000	1,300,000
Chloroform	ug/m^3	3.6	17
Chloromethane	ug/m^3	1,400	12,000
cis-1,2-Dichloroethene (cDCE)	ug/m^3	610	5200
cis-1,3-Dichloropropene	ug/m^3	na	na
Cyclohexane	ug/m^3	91,000	780,000
Dibromochloromethane	ug/m^3	na	na
Dichlorodifluoromethane	ug/m^3	1,500	13,000
Ethanol	ug/m^3	na	na
Ethyl acetate	ug/m^3	1,100	9,100
Hexachlorobutadiene	ug/m^3	3.8	18
Isopropyl Alcohol	ug/m^3	na	na
Isopropylbenzene	ug/m^3	6,100	52,000
Methyl Methacrylate	ug/m^3	11,000	91,000
Methyl tert-butyl ether (MTBE)	ug/m^3	320	1,500
Methylene Chloride	ug/m^3	2,200	39,000
n-Hexane	ug/m^3	11,000	91,000
Nonane	ug/m^3	na	na
n-Propylbenzene	ug/m^3	15,000	130,000
Pentane	ug/m^3	na	na
Styrene	ug/m^3	15,000	130,000
t-Butyl alcohol (TBA)	ug/m^3	na	na
Tetrachloroethene (PCE)	ug/m^3	320	1,500
Tetrahydrofuran	ug/m^3	30,000	260,000
trans-1,2-Dichloroethene	ug/m^3	610	5,200
trans-1,3-Dichloropropene	ug/m^3	na	na
Trichloroethene (TCE)	ug/m^3	11	95
Trichlorofluoromethane	ug/m^3	11,000	91,000
Vinyl Acetate	ug/m^3	3,000	26,000
Vinyl Bromide	ug/m^3	5.6	26
Vinyl Chloride	ug/m^3	9.5	44
1,3-Butadiene	ug/m^3	2.8	13
2,2,4-Trimethylpentane	ug/m^3	na	na
4-Ethyltoluene	ug/m^3	na	na
alpha-Chlorotoluene	ug/m^3	1.7	7.9
Freon 114	ug/m^3	na	na
Heptane	ug/m^3	6,100	52,000
Air-Phase Hydrocarbons			
C5 - C8 Aliphatic Hydrocarbons	ug/m^3	91,000	780,000
C9 - C12 Aliphatic Hydrocarbons	ug/m^3	1,500	13,000
C9 - C10 Aromatic Hydrocarbons	ug/m^3	6,100	52,000
Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX)			
Benzene	ug/m^3	11	50
Toluene	ug/m^3	76,000	650,000
Ethylbenzene	ug/m^3	15,000	130,000
Total Xylenes	ug/m^3	1,500	13,000
Polycyclic Aromatic Hydrocarbons (PAHs)			
Naphthalene	ug/m^3	2.5	11

Notes:

RI - Remedial Investigation
SL - screening level
MTCA - Model Toxics Control Act
ug/m^3 - micrograms per cubic meter

Table I.2.F - Derivation of Preliminary RI SLs - Indoor Air

South Park Marina Site, Seattle, Washington

		Source of Preliminary RI SLs	
Analyte	**Unit**	**MTCA Method B Unrestricted Use Indoor Air CUL**	**Adjusted Commercial Worker Exposure Indoor Air SL**
Volatile Organic Compounds (VOCs)			
1,1,1-Trichloroethane	ug/m^3	2,300	19,000
1,1,2-Trichloroethane	ug/m^3	0.091	0.73
1,1-Dichloroethane	ug/m^3	1.6	7.3
1,1-Dichloroethene	ug/m^3	91	780
1,2-Dichloroethane (EDC)	ug/m^3	0.096	0.45
Chloroethane	ug/m^3	4,600	39,000
cis-1,2-Dichloroethene (cDCE)	ug/m^3	18	160
Tetrachloroethene (PCE)	ug/m^3	9.6	45
trans-1,2-Dichloroethene	ug/m^3	18	160
Trichloroethene (TCE)	ug/m^3	0.33	2.8
Vinyl Chloride	ug/m^3	0.28	1.3

Notes:

RI - Remedial Investigation

SL - screening level

CUL - cleanup level

MTCA - Model Toxics Control Act

ug/m^3 - micrograms per cubic meter

APPENDIX I.3

Analytical Data Summary Tables by Media - Tables I.3.A through I.3.G - Groundwater, Vadose Soil, Saturated Soil, Catch Basin Solids, Stormwater, Soil Gas, and Indoor Air

Table I.3.A. Groundwater Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL.

				Location	MW-01			MW-02			MW-03			MW-04			MW-04D
				Date	10/09/07	03/12/08	07/31/08	10/09/07	03/12/08	07/31/08	10/08/07	03/12/08	07/31/08	03/31/21	05/27/21	10/27/22	10/26/22
				Sample	MW-1-100907	MW-1-031208	MW-01-073108	MW-2-100907	MW-2-031208	MW-02-073108	MW-3-100807	MW-3-031208	MW-03-073108	MW-04-210331	MW-04-210527	MW-04-221027	MW-04D-221026
				Hydrostatigraphic Unit	--	--	--	--	--	--	--	--	--	Fill	Fill	Fill	Alluvial
				Tidal Stage	--	--	--	--	--	--	--	--	--	Lower-Low	Lower-Low	Higher-Low	Higher-Low
				Tidal Trend	--	--	--	--	--	--	--	--	--	Incoming	Incoming	Outgoing	Outgoing
Analyte	Unit	Preliminary RI SL	Basis of SL														
Metals, Total																	
Arsenic	ug/L	8	GW-5	**4.68**	**2.91**	--	**8.07**	**1.56**	--	**3.13**	**1.59**	--	**0.575**	--	**1.98**	**3.03**
Barium	ug/L	200	GW-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	ug/L	1.2	GW-3	**0.022**	**0.013**	--	**0.091**	**0.015**	--	**0.04**	**0.017**	--	< 0.1 U	--	**0.466**	**0.221**
Chromium	ug/L	27	GW-2	**2.03**	**27.3**	--	**40.4**	**15.7**	--	**1.52**	**19.4**	--	< 0.5 U	--	**1.35**	**0.631 J**
Copper	ug/L	3.1	GW-2	**2.83**	**6.63**	--	**9.7**	**5.81**	--	**5.23**	**9.83**	--	< 0.5 U	--	**1.6**	**2.35**
Lead	ug/L	8.1	GW-2	**0.07**	**0.128**	--	**0.046**	**0.189**	--	**0.191**	**0.519**	--	< 0.1 U	--	**0.221**	< 0.2 U
Mercury	ug/L	0.025	GW-2	< 0.2 U	< 0.2 U	**0.00169**	< 0.2 U	< 0.2 U	**0.00141**	< 0.2 U	< 0.2 U	**0.0156**	< 0.02 U	--	< 0.0008 U	< 0.0008 U
Nickel	ug/L	8.2	GW-2	--	--	--	--	--	--	--	--	--	**11.5**	--	**31.6**	**20**
Selenium	ug/L	71	GW-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Silver	ug/L	0.91	GW-2	< 0.02 U	< 0.012 U	--	**0.005**	< 0.005 U	--	**0.01**	< 0.011 U	--	--	--	--	--
Zinc	ug/L	81	GW-2	**4.7**	**2.93**	--	**4.9**	**3.5**	--	**4.5**	**3.84**	--	< 6 U	--	**87.5**	**23.3**
Metals, Dissolved																	
Arsenic	ug/L	8	GW-5	**4.46**	--	--	**8.08**	--	--	**3.26**	--	--	**0.567**	--	**1.94**	**3.48**
Cadmium	ug/L	1.2	GW-3	**0.026**	--	--	**0.105**	--	--	**0.032**	--	--	**0.076 J**	--	**0.369**	**0.212**
Chromium	ug/L	27	GW-2	**1.61**	--	--	**25.2**	--	--	**1.25**	--	--	**1.05**	--	**1.07**	**1.19**
Copper	ug/L	3.1	GW-2	**2.77**	--	--	**6.27**	--	--	**5.11**	--	--	**1.84**	--	**2.55**	**2.2**
Lead	ug/L	8.1	GW-2	**0.057**	--	--	**0.021**	--	--	**0.055**	--	--	**0.183**	--	< 0.2 U	< 0.2 U
Mercury	ug/L	0.025	GW-2	< 0.2 U	--	--	< 0.2 U	--	--	< 0.2 U	--	--	< 0.02 U	--	< 0.0008 U	< 0.0008 U
Nickel	ug/L	8.2	GW-2	--	--	--	--	--	--	--	--	--	**11.2**	--	**30.4**	**20.1**
Silver	ug/L	0.91	GW-2	< 0.02 U	--	--	< 0.02 U	--	--	< 0.02 U	--	--	--	--	--	--
Zinc	ug/L	81	GW-2	**2.1**	--	--	**4.1**	--	--	**5.2**	--	--	**26.2**	--	**78.7**	**24.1**
Metals, Total, Prepared Using Reductive Precipitation																	
Arsenic	ug/L	8	GW-5	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	ug/L	1.2	GW-3	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	ug/L	27	GW-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Copper	ug/L	3.1	GW-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	ug/L	8.1	GW-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	ug/L	8.2	GW-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Zinc	ug/L	81	GW-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Metals, Dissolved, Prepared Using Reductive Precipitation																	
Arsenic	ug/L	8	GW-5	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	ug/L	1.2	GW-3	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	ug/L	27	GW-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Copper	ug/L	3.1	GW-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	ug/L	8.1	GW-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	ug/L	8.2	GW-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Zinc	ug/L	81	GW-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Butyl Tins																	
Dibutyltin Ion	ug/L			--	--	--	--	--	--	--	--	--	< 0.289 UJ	--	< 0.0077 U	< 0.0077 U
Monobutyltin	ug/L			--	--	--	--	--	--	--	--	--	< 0.204 UJ	--	**0.0161**	**0.0534**
Tetrabutyltin	ug/L			--	--	--	--	--	--	--	--	--	< 0.3 UJ	--	< 0.03 U	< 0.03 U
Tributyltin Ion	ug/L	4.3E-06	GW-3	--	--	--	--	--	--	--	--	--	< 0.193 UJ	--	< 0.0052 U	< 0.0052 U
Polychlorinated Biphenyl (PCB) Aroclors																	
Total PCB Aroclors (ND = 0)	ug/L	7.0E-06	GW-2	< 0.21 UA	--	--	< 0.21 UA	--	--	< 0.2 UA	--	--	**0.103 J**	--	**0.213**	< 0.0035 U
Polychlorinated Biphenyl (PCB) Congeners																	
Total PCB Congeners (ND = 0)	ug/L	7.0E-06	GW-2	--	--	--	--	--	--	--	--	--	--	**0.153 J**	--	--
Total PCB TEQ (ND = 0)	ug/L	4.4E-09	GW-2	--	--	--	--	--	--	--	--	--	--	**2.66E-06 J**	--	--
Dioxins/Furans																	
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	ug/L	5.1E-09	GW-2	--	--	--	--	--	--	--	--	--	--	--	--	--
2,3,7,8-TCDD	ug/L	5.1E-09	GW-2	--	--	--	--	--	--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)																	
1-Methylnaphthalene	ug/L	0.17	GW-4	--	--	--	--	--	--	--	--	--	**0.024**	--	< 0.1 U	< 0.1 U
2-Methylnaphthalene	ug/L	14	GW-3	< 0.21 U	--	--	< 0.21 U	--	--	< 0.21 U	--	--	< 0.01 U	--	< 0.1 U	< 0.1 U
Acenaphthene	ug/L	5.3	GW-3	< 0.21 U	--	--	< 0.21 U	--	--	< 0.21 U	--	--	**0.054**	--	**0.029**	< 0.01 U
Acenaphthylene	ug/L			< 0.21 U	--	--	< 0.21 U	--	--	< 0.21 U	--	--	**0.003 J**	--	< 0.01 U	< 0.01 U
Anthracene	ug/L	2.1	GW-3	< 0.21 U	--	--	< 0.21 U	--	--	< 0.21 U	--	--	**0.01**	--	**0.016**	< 0.01 U
Benzo(g,h,i)perylene	ug/L			< 0.21 U	--	--	< 0.21 U	--	--	< 0.21 U	--	--	**0.002 J**	--	< 0.02 U	< 0.02 U
Fluoranthene	ug/L	1.8	GW-3	< 0.21 U	--	--	< 0.21 U	--	--	< 0.21 U	--	--	**0.021**	--	**0.097**	< 0.01 U
Fluorene	ug/L	3.7	GW-3	< 0.21 U	--	--	< 0.21 U	--	--	< 0.21 U	--	--	**0.041**	--	**0.034**	< 0.01 U
Naphthalene	ug/L	1.4	GW-2	< 0.21 U	< 2 U	--	< 0.21 U	< 2 U	--	< 0.21 U	< 2 U	--	< 0.01 U	--	< 1 U	< 0.1 U
Phenanthrene	ug/L			< 0.21 U	--	--	< 0.21 U	--	--	< 0.21 U	--	--	< 0.01 U	--	< 0.01 U	< 0.01 U
Pyrene	ug/L	2	GW-3	< 0.21 U	--	--	< 0.21 U	--	--	< 0.21 U	--	--	**0.021**	--	**0.12**	< 0.01 U
Benz(a)anthracene	ug/L	0.00016	GW-2	< 0.21 U	--	--	< 0.21 U	--	--	< 0.21 U	--	--	< 0.01 U	--	**0.024**	< 0.01 U
Benzo(a)pyrene	ug/L	1.6E-05	GW-2	< 0.21 U	--	--	< 0.21 U	--	--	< 0.21 U	--	--	< 0.01 U	--	**0.017**	< 0.01 U
Benzo(b)fluoranthene	ug/L	0.00016	GW-2	< 0.21 U	--	--	< 0.21 U	--	--	< 0.21 U	--	--	< 0.01 U	--	**0.018**	< 0.01 U
Benzo(j)fluoranthene	ug/L			--	--	--	--	--	--	--	--	--	< 0.01 U	--	--	--
Benzo(j,k)fluoranthene	ug/L			--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	ug/L	0.0013	GW-2	< 0.21 U	--	--	< 0.21 U	--	--	< 0.21 U	--	--	< 0.01 U	--	< 0.01 U	< 0.01 U
Chrysene	ug/L	0.016	GW-2	< 0.21 U	--	--	< 0.21 U	--	--	< 0.21 U	--	--	**0.002 J**	--	**0.031**	< 0.01 U
Dibenzo(a,h)anthracene	ug/L	1.6E-05	GW-2	< 0.21 U	--	--	< 0.21 U	--	--	< 0.21 U	--	--	< 0.01 UJ	--	< 0.01 U	< 0.01 U
Indeno(1,2,3-cd)pyrene	ug/L	0.00016	GW-2	< 0.21 U	--	--	< 0.21 U	--	--	< 0.21 U	--	--	< 0.01 U	--	< 0.01 U	< 0.01 U
Total Benzofluoranthenes	ug/L			< 0.21 UA	--	--	< 0.21 UA	--	--	< 0.21 UA	--	--	< 0.01 U	--	**0.023**	< 0.01 U
Total HPAHs (ND = 1/2 RDL)	ug/L			< 0.21 U	--	--	< 0.21 U	--	--	< 0.21 U	--	--	**0.081 J**	--	**0.332**	< 0.02 U
Total LPAHs (ND = 1/2 RDL)	ug/L			< 0.21 U	--	--	< 0.21 U	--	--	< 0.21 U	--	--	**0.118 J**	--	**0.589**	< 0.1 U
Total cPAHs TEQ (ND = 1/2 RDL)	ug/L	1.6E-05	GW-2	< 0.159 U	--	--	< 0.159 U	--	--	< 0.159 U	--	--	**0.00752 J**	--	**0.023**	< 0.00755 U
Semivolatile Organic Compounds (SVOCs)																	
1,2-Diphenylhydrazine	ug/L	0.02	GW-2	--	--	--	--	--	--	--	--	--	--	--	< 0.1 U	< 0.1 U
2,4,5-Trichlorophenol	ug/L	600	GW-2	--	--	--	--	--	--	--	--	--	< 1 U	--	< 1 U	< 1 U
2,4,6-Trichlorophenol	ug/L	0.28	GW-2	--	--	--	--	--	--	--	--	--	< 1 U	--	< 1 U	< 1 U
2,4-Dichlorophenol	ug/L	10	GW-2	--	--	--	--	--	--	--	--	--	< 1 U	--	< 1 U	< 1 U
2,4-Dimethylphenol	ug/L	2.9	GW-3	< 4.1 U	--	--	< 4.1 U	--	--	< 4.1 U	--	--	< 1 U	--	< 1 U	< 1 UJ
2,4-Dinitrophenol	ug/L	100	GW-2	--	--	--	--	--	--	--	--	--	< 2 UJ	--	< 3 U	< 3 U
2,4-Dinitrotoluene	ug/L	0.18	GW-2	--	--	--	--	--	--	--	--	--	< 1 U	--	< 0.5 U	< 0.5 U
2,6-Dinitrotoluene	ug/L			--	--	--	--	--	--	--	--	--	< 1 U	--	< 0.5 U	< 0.5 U
2-Chloronaphthalene	ug/L	100	GW-2	--	--	--	--	--	--	--	--	--	< 0.01 U	--	< 0.1 U	< 0.1 U
2-Chlorophenol	ug/L	17	GW-2	--	--	--	--	--	--	--	--	--	< 0.2 U	--	< 1 U	< 1 U
2-Methylphenol	ug/L	9.8	GW-3	< 0.51 U	--	--	< 0.51 U	--	--	< 0.51 U	--	--	< 0.2 U	--	< 1 U	< 1 U
2-Nitroaniline	ug/L			--	--	--	--	--	--	--	--	--	< 1 U	--	< 0.5 U	< 0.5 U
2-Nitrophenol	ug/L			--	--	--	--	--	--	--	--	--	< 1 U	--	< 1 U	< 1 U
3 & 4 Methylphenol	ug/L			--	--	--	--	--	--	--	--	--	--	--	< 2 U	< 2 U
3,3'-Dichlorobenzidine	ug/L	0.0033	GW-2	--	--	--	--	--	--	--	--	--	< 1 U	--	< 1 U	< 1 U
3-Nitroaniline	ug/L			--	--	--	--	--	--	--	--	--	< 1 U	--	< 10 U	< 10 U
4,6-Dinitro-2-methylphenol	ug/L	7	GW-2	--	--	--	--	--	--	--	--	--	< 2 U	--	< 3 U	< 3 U
4-Bromophenyl phenyl ether	ug/L			--	--	--	--	--	--	--	--	--	< 0.2 U	--	< 0.1 U	< 0.1 U
4-Chloro-3-methylphenol	ug/L	36	GW-2	--	--	--	--	--	--	--	--	--	< 1 U	--	< 1 U	< 1 U
4-Chloroaniline	ug/L			--	--	--	--	--	--	--	--	--	< 1 UJ	--	< 10 U	< 10 U
4-Chlorophenyl phenyl ether	ug/L			--	--	--	--	--	--	--	--	--	< 0.2 U	--	< 0.1 U	< 0.1 U
4-Methylphenol	ug/L	110	GW-3	< 0.51 U	--	--	< 0.51 U	--	--	< 0.51 U	--	--	< 0.2 U	--	--	--
4-Nitroaniline	ug/L			--	--	--	--	--	--	--	--	--	< 1 U	--	< 10 U	< 10 U
4-Nitrophenol	ug/L			--	--	--	--	--	--	--	--	--	< 1 U	--	< 3 U	< 3 U
Benzoic acid	ug/L	590	GW-3	< 5.1 U	--	--	< 5.1 U	--	--	< 5.1 U	--	--	**0.4 J**	--	< 5 U	< 5 U
Benzyl alcohol	ug/L	56	GW-3	< 5.1 U	--	--	< 5.1 U	--	--	< 5.1 U	--	--	< 0.2 U	--	< 1 U	< 1 U
Benzyl butyl phthalate	ug/L	0.013	GW-2	< 0.21 U	--	--	< 0.21 U	--	--	< 0.21 U	--	--	< 0.2 U	--	< 1 U	< 1 U
Bis(2-chloro-1-methylethyl) ether	ug/L	100	GW-2	--	--	--	--	--	--	--	--	--	< 0.2 U	--	< 0.1 U	< 0.1 U
Bis(2-chloroethoxy)methane	ug/L			--	--	--	--	--	--	--	--	--	< 0.2 U	--	< 0.1 U	< 0.1 U
Bis(2-chloroethyl) ether	ug/L	0.06	GW-2	--	--	--	--	--	--	--	--	--	< 0.2 U	--	< 0.1 U	< 0.1 U
Bis(2-ethylhexyl) phthalate	ug/L	0.046	GW-2	< 1.1 U	--	--	< 1.1 U	--	--	< 1.1 U	--	--	**0.6**	--	< 1.6 U	< 1.6 U
Carbazole	ug/L			--	--	--	--	--	--	--	--	--	**0.007 J**	--	< 0.1 U	< 0.1 U
Dibenzofuran	ug/L	3.1	GW-3	< 0.21 U	--	--	< 0.21 U	--	--	< 0.21 U	--	--	**0.023 J**	--	< 0.1 U	< 0.1 U
Diethyl phthalate	ug/L	93	GW-3	**0.036**	--	--	**0.059**	--	--	**0.047**	--	--	**1.4**	--	< 1 U	< 1 U
Dimethyl phthalate	ug/L	59	GW-3	< 0.21 U	--	--	< 0.21 U	--	--	< 0.21 U	--	--	< 0.2 U	--	< 1 U	< 1 U
Di-n-butyl phthalate	ug/L	8	GW-2	**0.065**	--	--	**0.08**	--	--	**0.08**	--	--	< 0.2 U	--	< 1 U	< 1 U
Di-n-octyl phthalate	ug/L	2.3	GW-3	< 0.21 U	--	--	< 0.21 U	--	--	< 0.21 U	--	--	< 0.2 U	--	< 1 U	< 1 U
Hexachlorobenzene	ug/L	5E-06	GW-2	< 0.21 U	--	--	< 0.21 U	--	--	< 0.21 U	--	--	< 0.0013 U	--	< 0.1 U	< 0.1 U
Hexachlorobutadiene	ug/L	0.01	GW-2	< 0.21 U	< 2 U	--	< 0.21 U	< 2 U	--	< 0.21 U	< 2 U	--	< 0.2 U	--	< 0.5 U	< 0.1 U
Hexachlorocyclopentadiene	ug/L	1	GW-2	--	--	--	--	--	--	--	--	--	< 1 UJ	--	< 0.3 U	< 0.3 U
Hexachloroethane	ug/L	0.02	GW-2	--	--	--	--	--	--	--	--	--	< 0.2 U	--	< 0.1 U	< 0.1 U
Isophorone	ug/L	110	GW-2	--	--	--	--	--	--	--	--	--	< 0.2 U	--	< 0.1 U	< 0.1 U
Nitrobenzene	ug/L	100	GW-2	--	--	--	--	--	--	--	--	--	< 0.2 U	--	< 0.1 U	< 0.1 U
N-Nitrosodimethylamine	ug/L	0.34	GW-2	--	--	--	--	--	--	--	--	--	--	--	< 0.1 UJ	< 0.1 U
N-Nitroso-di-n-propylamine	ug/L	0.058	GW-2	--	--	--	--	--	--	--	--	--	< 0.2 U	--	< 0.1 U	< 0.1 U
N-Nitrosodiphenylamine	ug/L	0.55	GW-3	< 0.21 U	--	--	< 0.21 U	--	--	< 0.21 U	--	--	< 0.2 U	--	< 0.1 U	< 0.1 U
Pentachlorophenol	ug/L	0.002	GW-2	< 1.1 U	--	--	< 1.1 U	--	--	< 1.1 U	--	--	< 1 U	--	< 0.5 U	< 0.5 U
Perylene	ug/L			--	--	--	--	--	--	--	--	--	< 0.01 U	--	--	--
Phenol	ug/L	100	GW-3	< 0.51 U	--	--	< 0.51 U	--	--	< 0.51 U	--	--	< 0.2 U	--	< 1 U	< 1 U

Table I.3.A. Groundwater Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL.

				Location	MW-01			MW-02			MW-03			MW-04			MW-04D
				Date	10/09/07	03/12/08	07/31/08	10/09/07	03/12/08	07/31/08	10/08/07	03/12/08	07/31/08	03/31/21	05/27/21	10/27/22	10/26/22
				Sample	MW-1-100907	MW-1-031208	MW-01-073108	MW-2-100907	MW-2-031208	MW-02-073108	MW-3-100807	MW-3-031208	MW-03-073108	MW-04-210331	MW-04-210527	MW-04-221027	MW-04D-221026
				Hydrostatigraphic Unit	--	--	--	--	--	--	--	--	--	Fill	Fill	Fill	Alluvial
				Tidal Stage	--	--	--	--	--	--	--	--	--	Lower-Low	Lower-Low	Higher-Low	Higher-Low
				Tidal Trend	--	--	--	--	--	--	--	--	--	Incoming	Incoming	Outgoing	Outgoing
Analyte	Unit	Preliminary RI SL	Basis of SL														
Pesticides																	
2,4'-DDD	ug/L			< 0.011 U	< 0.0005 U	--	< 0.011 U	< 0.00049 U	--	< 0.01 U	< 0.0005 U	--	< 0.0013 U	--	--	--
2,4'-DDE	ug/L			< 0.011 U	< 0.0005 U	--	< 0.011 U	< 0.00049 U	--	< 0.01 U	< 0.0005 U	--	< 0.0013 U	--	--	--
2,4'-DDT	ug/L			< 0.011 U	< 0.0005 U	--	< 0.011 U	< 0.00049 U	--	**0.001**	< 0.0005 U	--	< 0.0013 U	--	--	--
4,4'-DDD	ug/L	7.9E-06	GW-2	< 0.011 U	< 0.0005 U	--	< 0.011 U	< 0.00049 U	--	< 0.01 U	< 0.00097 U	--	< 0.0013 U	--	< 0.00125 U	< 0.00125 U
4,4'-DDE	ug/L	8.8E-07	GW-2	< 0.011 U	< 0.0005 U	--	< 0.011 U	< 0.00049 U	--	< 0.01 U	< 0.0005 U	--	< 0.0013 U	--	**0.014**	< 0.00125 U
4,4'-DDT	ug/L	1.2E-06	GW-2	< 0.011 U	< 0.0005 U	--	**0.0022 J**	**0.00082**	--	< 0.01 U	**0.0014**	--	< 0.0013 U	--	< 0.00125 U	< 0.00125 U
Aldrin	ug/L	4.1E-08	GW-2	< 0.011 U	< 0.0005 U	--	< 0.011 U	< 0.00049 U	--	**0.0012**	**0.0012 J**	--	**0.0364**	--	**0.78**	**0.019**
Alpha-BHC	ug/L	4.8E-05	GW-2	--	--	--	--	--	--	--	--	--	< 0.0006 U	--	< 0.000625 U	< 0.000625 U
Beta-BHC	ug/L	0.0014	GW-2	--	--	--	--	--	--	--	--	--	< 0.0006 U	--	< 0.000625 U	< 0.000625 U
Chlordane	ug/L	2.2E-05	GW-2	< 0.21 U	< 0.0099 U	--	< 0.21 U	< 0.0097 U	--	< 0.2 U	< 0.01 U	--	--	--	--	--
cis-Chlordane	ug/L	7.8E-05	GW-3	--	< 0.0005 U	--	--	< 0.00049 U	--	--	< 0.0005 U	--	< 0.0006 U	--	< 0.000625 U	< 0.000625 U
cis-Nonachlor	ug/L			--	--	--	--	--	--	--	--	--	< 0.0013 U	--	--	--
Delta-BHC	ug/L			--	--	--	--	--	--	--	--	--	< 0.0006 U	--	< 0.000625 U	< 0.000625 U
Dieldrin	ug/L	7E-08	GW-2	< 0.011 U	< 0.0005 U	--	**0.0015**	**0.00071**	--	**0.021**	**0.041**	--	**0.037**	--	**0.042**	**0.11**
Endosulfan I	ug/L	0.0087	GW-2	--	--	--	--	--	--	--	--	--	< 0.0006 U	--	< 0.000625 U	< 0.000625 U
Endosulfan II	ug/L	0.0087	GW-2	--	--	--	--	--	--	--	--	--	< 0.0013 U	--	< 0.00125 U	< 0.00125 U
Endosulfan Sulfate	ug/L	10	GW-2	--	--	--	--	--	--	--	--	--	< 0.0013 UJ	--	< 0.00125 U	< 0.00125 U
Endrin	ug/L	0.002	GW-2	--	--	--	--	--	--	--	--	--	< 0.0013 U	--	< 0.00125 U	< 0.00125 U
Endrin Aldehyde	ug/L	0.035	GW-2	--	--	--	--	--	--	--	--	--	< 0.0013 UJ	--	< 0.00125 U	< 0.00125 U
Endrin ketone	ug/L			--	--	--	--	--	--	--	--	--	< 0.0013 UJ	--	< 0.00125 U	< 0.00125 U
Heptachlor	ug/L	3.4E-07	GW-2	< 0.011 U	< 0.0005 U	--	< 0.011 U	< 0.00049 U	--	< 0.01 U	< 0.0005 U	--	< 0.0006 U	--	< 0.000625 U	< 0.000625 U
Heptachlor Epoxide	ug/L	2.4E-06	GW-2	--	--	--	--	--	--	--	--	--	< 0.0006 U	--	< 0.000625 U	< 0.000625 U
Lindane	ug/L	0.13	GW-2	< 0.011 U	< 0.0005 U	--	< 0.011 U	< 0.00049 U	--	< 0.01 U	< 0.0005 U	--	< 0.0006 U	--	< 0.000625 U	< 0.000625 U
Methoxychlor	ug/L	0.02	GW-2	--	--	--	--	--	--	--	--	--	< 0.0063 U	--	< 0.00625 U	< 0.00625 U
Mirex	ug/L	0.001	GW-2	--	--	--	--	--	--	--	--	--	< 0.0013 U	--	--	--
Oxychlordane	ug/L			--	--	--	--	--	--	--	--	--	< 0.0013 U	--	--	--
Toxaphene	ug/L	3.2E-05	GW-2	--	--	--	--	--	--	--	--	--	--	--	< 0.0625 U	< 0.0625 U
trans-Chlordane	ug/L	7.8E-05	GW-3	--	< 0.0005 U	--	--	< 0.00049 U	--	--	< 0.0005 U	--	< 0.0006 U	--	< 0.000625 U	< 0.000625 U
trans-Nonachlor	ug/L			--	--	--	--	--	--	--	--	--	< 0.0013 U	--	--	--
Total Petroleum Hydrocarbons (TPH)																	
Gasoline-Range Organics	ug/L	800	GW-2	< 250 U	--	--	< 250 U	--	--	< 250 U	--	--	< 100 UJ	--	< 100 U	< 100 U
Diesel-Range Organics	ug/L	500	GW-2	< 630 U	--	--	< 630 U	--	--	< 630 U	--	--	**744**	--	**620**	< 50 U
Motor Oil-Range Organics	ug/L	500	GW-2	< 630 U	--	--	< 630 U	--	--	< 630 U	--	--	**630**	--	**1400**	< 250 U
Diesel and Oil Extended-Range Organics	ug/L	500	GW-2	< 630 U	--	--	< 630 U	--	--	< 630 U	--	--	**1370**	--	**2020**	< 250 U
Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)																	
Benzene	ug/L	1.6	GW-2	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.2 U	--	< 0.35 U	< 0.35 U
Toluene	ug/L	100	GW-2	< 0.5 U	< 0.5 U	--	**0.11**	< 0.5 U	--	**0.12**	< 0.5 U	--	< 0.2 U	--	< 1 U	< 1 U
Ethylbenzene	ug/L	21	GW-2	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.2 U	--	< 1 U	< 1 U
Total Xylenes	ug/L	110	GW-2	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.6 U	--	< 2 U	< 2 U
Volatile Organic Compounds (VOCs)																	
1,1,1,2-Tetrachloroethane	ug/L	7.1	GW-4	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.2 U	--	< 1 U	< 1 U
1,1,1-Trichloroethane	ug/L	5400	GW-4	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.2 U	--	< 1 U	< 1 U
1,1,2 - Trichlorotrifluoroethane	ug/L	170	GW-4	--	--	--	--	--	--	--	--	--	< 0.2 U	--	--	--
1,1,2,2-Tetrachloroethane	ug/L	0.3	GW-2	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.2 U	--	< 0.2 U	< 0.2 U
1,1,2-Trichloroethane	ug/L	0.9	GW-2	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.2 U	--	< 0.5 U	< 0.5 U
1,1-Dichloroethane	ug/L	11	GW-4	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.2 U	--	< 1 U	< 1 U
1,1-Dichloroethene	ug/L	130	GW-4	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.2 U	--	< 1 U	< 1 U
1,1-Dichloropropene	ug/L			< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.2 U	--	< 1 U	< 1 U
1,2,3-Trichlorobenzene	ug/L			< 2 U	< 2 U	--	< 2 U	< 2 U	--	< 2 U	< 2 U	--	< 0.5 U	--	< 1 U	< 1 U
1,2,3-Trichloropropane	ug/L	20	GW-4	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.5 U	--	< 1 U	< 1 U
1,2,4-Trichlorobenzene	ug/L	0.037	GW-2	< 0.21 U	< 2 U	--	< 0.21 U	< 2 U	--	< 0.21 U	< 2 U	--	< 0.2 U	--	< 1 U	< 1 U
1,2,4-Trimethylbenzene	ug/L	240	GW-4	< 2 U	< 2 U	--	< 2 U	< 2 U	--	< 2 U	< 2 U	--	**0.13 J**	--	< 1 U	< 1 U
1,2-Dibromo-3-chloropropane	ug/L	0.042	GW-4	< 2 U	< 2 U	--	< 2 U	< 2 U	--	< 2 U	< 2 U	--	< 0.5 U	--	< 10 U	< 10 U
1,2-Dibromoethane (EDB)	ug/L	0.3	GW-4	< 2 U	< 2 U	--	< 2 U	< 2 U	--	< 2 U	< 2 U	--	< 0.2 U	--	< 1 U	< 1 U
1,2-Dichlorobenzene	ug/L	4.5	GW-3	< 0.21 U	< 0.5 U	--	< 0.21 U	< 0.5 U	--	< 0.21 U	< 0.5 U	--	**0.11 J**	--	< 1 U	< 0.1 U
1,2-Dichloroethane (EDC)	ug/L	3.5	GW-4	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.2 U	--	< 0.2 U	< 0.2 U
1,2-Dichloropropane	ug/L	3.1	GW-2	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.2 U	--	< 1 U	< 1 U
1,3,5-Trimethylbenzene	ug/L	170	GW-4	< 2 U	< 2 U	--	< 2 U	< 2 U	--	< 2 U	< 2 U	--	< 0.2 U	--	< 1 U	< 1 U
1,3-Dichlorobenzene	ug/L	2	GW-2	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.2 U	--	< 0.1 U	< 1 U
1,3-Dichloropropane	ug/L	1.2	GW-2	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.2 U	--	< 1 U	< 1 U
1,4-Dichloro-2-Butene	ug/L			--	--	--	--	--	--	--	--	--	< 1 UJ	--	--	--
1,4-Dichlorobenzene	ug/L	5	GW-4	< 0.21 U	< 0.5 U	--	< 0.21 U	< 0.5 U	--	< 0.21 U	< 0.5 U	--	**0.04 J**	--	< 1 U	< 1 U
2,2-Dichloropropane	ug/L			< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.2 U	--	< 1 U	< 1 U
2-Butanone	ug/L	1700000	GW-4	< 20 U	< 20 U	--	< 20 U	< 20 U	--	< 20 U	< 20 U	--	< 5 U	--	< 20 U	< 20 U
2-Chlorotoluene	ug/L			< 2 U	< 2 U	--	< 2 U	< 2 U	--	< 2 U	< 2 U	--	< 0.2 U	--	< 1 U	< 1 U
2-Hexanone	ug/L	7300	GW-4	< 20 U	< 20 U	--	< 20 U	< 20 U	--	< 20 U	< 20 U	--	< 5 U	--	< 10 U	< 10 U
2-Pentanone	ug/L			--	--	--	--	--	--	--	--	--	< 5 UJ	--	--	--
4-Chlorotoluene	ug/L			< 2 U	< 2 U	--	< 2 U	< 2 U	--	< 2 U	< 2 U	--	< 0.2 U	--	< 1 U	< 1 U
4-Methyl-2-pentanone	ug/L	470000	GW-4	< 20 U	< 20 U	--	< 20 U	< 20 U	--	< 20 U	< 20 U	--	< 5 U	--	< 10 U	< 10 U
Acetone	ug/L			< 20 U	< 20 U	--	< 20 U	< 20 U	--	< 20 U	< 20 U	--	**4.99 J**	--	< 50 U	< 50 U
Acrolein	ug/L	1.1	GW-2	--	--	--	--	--	--	--	--	--	< 5 U	--	--	--
Acrylonitrile	ug/L	0.028	GW-2	--	--	--	--	--	--	--	--	--	< 1 U	--	--	--
Bromobenzene	ug/L	630	GW-4	< 2 U	< 2 U	--	< 2 U	< 2 U	--	< 2 U	< 2 U	--	< 0.2 U	--	< 1 U	< 1 U
Bromochloromethane	ug/L			< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.2 U	--	--	--
Bromodichloromethane	ug/L	1.4	GW-4	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.2 U	--	< 0.5 U	< 0.5 U
Bromoform	ug/L	12	GW-2	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.2 UJ	--	< 5 U	< 5 U
Bromomethane	ug/L	11	GW-4	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 1 U	--	< 5 U	< 5 U
Carbon Disulfide	ug/L	840	GW-4	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.2 U	--	--	--
Carbon Tetrachloride	ug/L	0.35	GW-2	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.2 U	--	< 0.5 U	< 0.5 U
Chlorobenzene	ug/L	200	GW-2	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.2 U	--	< 1 U	< 1 U
Chloroethane	ug/L	15000	GW-4	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.2 U	--	< 1 U	< 1 U
Chloroform	ug/L	1.2	GW-4	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.2 U	--	< 1 U	< 1 U
Chloromethane	ug/L	150	GW-4	< 0.5 U	**0.82**	--	< 0.5 U	**0.36**	--	**0.46**	**0.9**	--	< 0.5 U	--	< 10 U	< 10 U
cis-1,2-Dichloroethene (DCE)	ug/L	180	GW-4	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.2 U	--	< 1 U	< 1 U
cis-1,3-Dichloropropene	ug/L	1.2	GW-2	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.2 U	--	< 0.4 U	< 0.4 U
Dibromochloromethane	ug/L	2.2	GW-2	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.2 U	--	< 0.5 U	< 0.5 U
Dibromomethane	ug/L	97	GW-4	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.2 U	--	< 1 U	< 1 U
Dichlorodifluoromethane	ug/L	4.2	GW-4	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.2 U	--	< 1 U	< 1 U
Isopropylbenzene	ug/L	910	GW-4	< 2 U	< 2 U	--	< 2 U	< 2 U	--	< 2 U	< 2 U	--	< 0.2 U	--	< 1 U	< 1 U
m,p-Xylenes	ug/L			< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.4 U	--	< 2 U	< 2 U
Methyl tert-butyl ether (MTBE)	ug/L	860	GW-4	--	--	--	--	--	--	--	--	--	< 0.5 U	--	< 1 U	< 1 U
Methylene Chloride	ug/L	100	GW-2	< 2 U	< 2 U	--	< 2 U	< 2 U	--	< 2 U	< 2 U	--	< 1 U	--	< 5 U	**6 J**
Methyliodide	ug/L			--	--	--	--	--	--	--	--	--	< 1 U	--	--	--
n-Butylbenzene	ug/L			< 2 U	< 2 U	--	< 2 U	< 2 U	--	< 2 U	< 2 U	--	< 0.2 U	--	--	--
n-Hexane	ug/L	7.2	GW-4	--	--	--	--	--	--	--	--	--	--	--	< 5 U	< 5 U
n-Propylbenzene	ug/L	2300	GW-4	< 2 U	< 2 U	--	< 2 U	< 2 U	--	< 2 U	< 2 U	--	< 0.2 U	--	< 1 U	< 1 U
o-Xylene	ug/L			< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.2 U	--	< 1 U	< 1 U
p-Isopropyltoluene	ug/L	88	GW-4	< 2 U	< 2 U	--	< 2 U	< 2 U	--	< 2 U	< 2 U	--	< 0.2 U	--	< 1 U	< 1 U
sec-Butylbenzene	ug/L			< 2 U	< 2 U	--	< 2 U	< 2 U	--	< 2 U	< 2 U	--	< 0.2 U	--	< 1 U	< 1 U
Styrene	ug/L	8500	GW-4	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.2 U	--	< 1 U	< 1 U
tert-Butylbenzene	ug/L			< 2 U	< 2 U	--	< 2 U	< 2 U	--	< 2 U	< 2 U	--	< 0.2 U	--	< 1 U	< 1 U
Tetrachloroethene (PCE)	ug/L	2.9	GW-2	< 0.5 U	< 0.5 U	--	< 0.5 U	**0.2**	--	**0.16**	**0.18**	--	**1.3**	--	**1**	< 1 U
trans-1,2-Dichloroethene	ug/L	77	GW-4	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.2 U	--	< 1 U	< 1 U
trans-1,3-Dichloropropene	ug/L	1.2	GW-2	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.2 U	--	< 0.4 U	< 0.4 U
Trichloroethene (TCE)	ug/L	0.7	GW-2	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	**0.11 J**	--	< 0.5 U	< 0.5 U
Trichlorofluoromethane	ug/L	120	GW-4	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.2 U	--	< 1 U	< 1 U
Vinyl Acetate	ug/L	8100	GW-4	--	--	--	--	--	--	--	--	--	< 0.2 U	--	--	--
Vinyl Chloride	ug/L	0.18	GW-2	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.5 U	< 0.5 U	--	< 0.2 U	--	< 0.02 U	< 0.02 U
Conventionals																	
Total Organic Carbon	ug/L			--	--	--	--	--	--	--	--	--	**11500**	--	--	--
Total Suspended Solids	mg/L			--	--	--	--	--	--	--	--	--	< 1 U	--	**6.4 J**	< 5 U
Field Parameters																	
Temperature	deg C			--	--	--	--	--	--	--	--	--	**11.4**	**14.2**	**15.3**	**13.6**
Specific Conductance	uS/cm			--	--	--	--	--	--	--	--	--	**118**	**222**	**746**	**2180**
Dissolved Oxygen	mg/L			--	--	--	--	--	--	--	--	--	**0.33**	**1.52**	**1.93**	**0.65**
pH	pH units			--	--	--	--	--	--	--	--	--	**6.23**	**6.27**	**5.91**	**5.92**
Oxidation Reduction Potential	mV			--	--	--	--	--	--	--	--	--	**94**	**69.5**	**126**	**-14.9**
Turbidity	NTU			--	--	--	--	--	--	--	--	--	**2.43**	**3.07**	**30.8**	**10**

Table I.3.A. Groundwater Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL.

Location				MW-05				MW-05D	MW-06			MW-06D
Date				03/31/21	05/27/21	10/26/22	03/23/23	10/26/22	03/29/21	10/26/22	03/23/23	10/31/22
Sample				MW-05-210331	MW-05-210527	MW-05-221026	MW-05-230323	MW-05D-221026	MW-06-210329	MW-06-221026	MW-06-230323	MW-06D-221031
Hydrostatigraphic Unit				Fill	Fill	Fill	Fill	Alluvial	Fill	Fill	Fill	Alluvial
Tidal Stage				Lower-Low	Lower-Low	Higher-Low	Lower-Low	Higher-Low	Lower-High	Higher-Low	Higher-High	Higher-Low
Tidal Trend				Incoming	Incoming	Outgoing	Incoming	Outgoing	Incoming	Outgoing	Outgoing	Outgoing
Analyte	Unit	Preliminary RI SL	Basis of SL									
Metals, Total												
Arsenic	ug/L	8	GW-5	**0.833**	--	**3.25**	**1.33**	**3.46**	**0.267**	**14.8**	--	**2.23**
Barium	ug/L	200	GW-2	--	--	--	--	--	--	--	--	--
Cadmium	ug/L	1.2	GW-3	< 0.1 U	--	< 0.2 U	< 0.2 U	< 0.2 U	< 0.1 U	< 1 U	< 0.2 UJ	< 0.2 U
Chromium	ug/L	27	GW-2	**2.37**	--	**1.25**	**2.15 J**	**1.31**	**0.444 J**	**33.5**	**1.6 J**	**0.873**
Copper	ug/L	3.1	GW-2	< 0.5 U	--	**0.662 J**	< 0.5 U	**1.47**	**3.06**	**17.6**	**3.78 J**	**3.76**
Lead	ug/L	8.1	GW-2	**2.44**	--	**1.34**	**2.16**	**0.3**	**0.13**	< 1 U	< 0.2 U	< 0.2 U
Mercury	ug/L	0.025	GW-2	< 0.02 U	--	< 0.0008 U	--	**0.0013**	< 0.02 UJ	**0.00084**	--	**0.0016 J**
Nickel	ug/L	8.2	GW-2	**25.1**	--	**12.2**	**4.43**	**4.11**	**0.463 J**	**158**	**7.54**	**2.32**
Selenium	ug/L	71	GW-2	--	--	--	--	--	--	--	--	--
Silver	ug/L	0.91	GW-2	--	--	--	--	--	--	--	--	--
Zinc	ug/L	81	GW-2	**1830**	--	**29.1**	**11.4**	**8.16**	**6.01**	**73.6**	**17.1**	**2.22**
Metals, Dissolved												
Arsenic	ug/L	8	GW-5	**0.798**	--	**3.15**	**1.28**	**3.19**	**0.288**	**14.2**	**5.8**	**2.03**
Cadmium	ug/L	1.2	GW-3	< 0.1 U	--	< 0.2 U	< 0.2 U	< 0.2 U	< 0.1 U	< 1 U	< 0.2 UJ	< 0.2 U
Chromium	ug/L	27	GW-2	**2.34**	--	**1**	**2.12**	**0.737**	**0.465 J**	**16.4**	**1.21**	**0.909**
Copper	ug/L	3.1	GW-2	**0.297 J**	--	**0.54 J**	< 0.5 UJ	**1.21**	**2.73**	**16.3**	**3.44**	**3.38**
Lead	ug/L	8.1	GW-2	**0.226**	--	< 0.2 U	**1.38**	< 0.2 U	**0.068 J**	< 1 U	< 0.2 U	< 0.2 U
Mercury	ug/L	0.025	GW-2	< 0.02 U	--	< 0.0008 U	--	**0.001**	< 0.02 UJ	**0.0018**	--	**0.0013**
Nickel	ug/L	8.2	GW-2	**22.2**	--	**12.6**	**5.04**	**3.87**	**0.41 J**	**149**	**7.35**	**2.14**
Silver	ug/L	0.91	GW-2	--	--	--	--	--	--	--	--	--
Zinc	ug/L	81	GW-2	**1490**	--	**19.4**	**9.94**	**8.28**	**5.71**	**72.3**	**16.3**	**2.11**
Metals, Total, Prepared Using Reductive Precipitation												
Arsenic	ug/L	8	GW-5	--	--	--	< 0.50 U	--	--	--	< 0.50 U	--
Cadmium	ug/L	1.2	GW-3	--	--	--	**0.028**	--	--	--	**0.170**	--
Chromium	ug/L	27	GW-2	--	--	--	**2.59**	--	--	--	**0.69**	--
Copper	ug/L	3.1	GW-2	--	--	--	**0.48**	--	--	--	**2.70**	--
Lead	ug/L	8.1	GW-2	--	--	--	**2.37**	--	--	--	< 0.050 U	--
Nickel	ug/L	8.2	GW-2	--	--	--	**4.33**	--	--	--	**5.08**	--
Zinc	ug/L	81	GW-2	--	--	--	**11.4**	--	--	--	**17.6**	--
Metals, Dissolved, Prepared Using Reductive Precipitation												
Arsenic	ug/L	8	GW-5	--	--	--	< 0.50 U	--	--	--	< 0.50 U	--
Cadmium	ug/L	1.2	GW-3	--	--	--	< 0.020 U	--	--	--	**0.173**	--
Chromium	ug/L	27	GW-2	--	--	--	**2.21**	--	--	--	**0.57**	--
Copper	ug/L	3.1	GW-2	--	--	--	**0.28**	--	--	--	**2.95**	--
Lead	ug/L	8.1	GW-2	--	--	--	**1.55**	--	--	--	< 0.050 U	--
Nickel	ug/L	8.2	GW-2	--	--	--	**4.27**	--	--	--	**5.40**	--
Zinc	ug/L	81	GW-2	--	--	--	**9.47**	--	--	--	**18.1**	--
Butyl Tins												
Dibutyltin Ion	ug/L			< 0.289 U	--	< 0.0077 U	--	< 0.0077 U	< 0.289 UJ	< 0.0077 U	--	< 0.0077 U
Monobutyltin	ug/L			< 0.204 UJ	--	**0.0064**	--	< 0.006 U	< 0.204 UJ	< 0.006 U	--	**0.0374**
Tetrabutyltin	ug/L			< 0.3 U	--	< 0.03 U	--	< 0.03 U	< 0.3 UJ	< 0.03 U	--	< 0.03 U
Tributyltin Ion	ug/L	4.3E-06	GW-3	< 0.193 U	--	< 0.0052 U	--	< 0.0052 U	< 0.193 UJ	< 0.0052 U	--	< 0.0052 U
Polychlorinated Biphenyl (PCB) Aroclors												
Total PCB Aroclors (ND = 0)	ug/L	7.0E-06	GW-2	**0.679 J**	--	**17**	**0.35**	< 0.0035 U	**0.02 J**	< 0.0035 U	< 0.0035 U	< 0.0035 U
Polychlorinated Biphenyl (PCB) Congeners												
Total PCB Congeners (ND = 0)	ug/L	7.0E-06	GW-2	--	**0.304 J**	--	--	--	--	--	--	--
Total PCB TEQ (ND = 0)	ug/L	4.4E-09	GW-2	--	**4.73E-06**	--	--	--	--	--	--	--
Dioxins/Furans												
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	ug/L	5.1E-09	GW-2	--	--	--	**2.88E-05 J**	--	--	--	**1.23E-06 J**	--
2,3,7,8-TCDD	ug/L	5.1E-09	GW-2	--	--	--	**1.12E-06 J**	--	--	--	< 5.61E-07 U	--
Polycyclic Aromatic Hydrocarbons (PAHs)												
1-Methylnaphthalene	ug/L	0.17	GW-4	**2.63 J**	--	**2.6**	--	< 0.1 U	**0.002 J**	< 0.1 U	--	< 0.1 U
2-Methylnaphthalene	ug/L	14	GW-3	**0.441 J**	--	< 0.1 U	--	< 0.1 U	**0.003 J**	< 0.1 U	--	< 0.1 U
Acenaphthene	ug/L	5.3	GW-3	**0.436 J**	--	**0.41**	--	< 0.01 U	< 0.01 U	< 0.01 U	--	< 0.01 U
Acenaphthylene	ug/L			**0.024**	--	< 0.01 U	--	< 0.01 U	< 0.01 U	< 0.01 U	--	< 0.01 U
Anthracene	ug/L	2.1	GW-3	**0.182**	--	**0.27**	--	< 0.01 U	< 0.01 U	< 0.01 U	--	< 0.01 U
Benzo(g,h,i)perylene	ug/L			**0.002 J**	--	< 0.02 J	--	< 0.02 U	< 0.01 U	< 0.02 U	--	< 0.02 U
Fluoranthene	ug/L	1.8	GW-3	**0.06**	--	**0.18**	--	< 0.01 U	< 0.01 U	< 0.01 U	--	< 0.01 U
Fluorene	ug/L	3.7	GW-3	**0.562**	--	**0.63**	--	< 0.01 U	< 0.01 U	< 0.01 U	--	< 0.01 U
Naphthalene	ug/L	1.4	GW-2	**0.036 J**	--	< 0.1 U	--	< 0.1 U	< 0.01 U	< 1 U	--	< 1 U
Phenanthrene	ug/L			**0.062 J**	--	**0.11**	--	< 0.01 U	< 0.01 U	< 0.01 U	--	< 0.01 U
Pyrene	ug/L	2	GW-3	**0.051**	--	**0.3**	--	< 0.01 U	< 0.01 U	< 0.01 U	--	< 0.01 U
Benz(a)anthracene	ug/L	0.00016	GW-2	**0.007 J**	--	**0.052**	--	< 0.01 U	< 0.01 U	< 0.01 U	--	< 0.01 U
Benzo(a)pyrene	ug/L	1.6E-05	GW-2	**0.003 J**	--	**0.046 J**	--	< 0.01 U	< 0.01 U	< 0.01 U	--	< 0.01 U
Benzo(b)fluoranthene	ug/L	0.00016	GW-2	**0.003 J**	--	**0.056 J**	--	< 0.01 U	< 0.01 U	< 0.01 U	--	< 0.01 U
Benzo(j)fluoranthene	ug/L			< 0.01 U	--	--	--	--	< 0.01 U	--	--	--
Benzo(j,k)fluoranthene	ug/L			--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	ug/L	0.0013	GW-2	< 0.01 U	--	**0.018 J**	--	< 0.01 U	< 0.01 U	< 0.01 U	--	< 0.01 U
Chrysene	ug/L	0.016	GW-2	**0.011**	--	**0.092**	--	< 0.01 U	< 0.01 U	< 0.01 U	--	< 0.01 U
Dibenzo(a,h)anthracene	ug/L	1.6E-05	GW-2	< 0.01 UJ	--	< 0.01 J	--	< 0.01 U	< 0.01 UJ	< 0.01 U	--	< 0.01 U
Indeno(1,2,3-cd)pyrene	ug/L	0.00016	GW-2	**0.001 J**	--	**0.015 J**	--	< 0.01 U	< 0.01 U	< 0.01 U	--	< 0.01 U
Total Benzofluoranthenes	ug/L			**0.006 J**	--	**0.074 J**	--	< 0.01 U	< 0.01 U	< 0.01 U	--	< 0.01 U
Total HPAHs (ND = 1/2 RDL)	ug/L			**0.153 J**	--	**0.774 J**	--	< 0.02 U	< 0.01 UJ	< 0.02 U	--	< 0.02 U
Total LPAHs (ND = 1/2 RDL)	ug/L			**1.3 J**	--	**1.48**	--	< 0.1 U	< 0.01 U	< 1 U	--	< 1 U
Total cPAHs TEQ (ND = 1/2 RDL)	ug/L	1.6E-05	GW-2	**0.00521 J**	--	**0.0615 J**	--	< 0.00755 U	< 0.00755 UJ	< 0.00755 U	--	< 0.00755 U
Semivolatile Organic Compounds (SVOCs)												
1,2-Diphenylhydrazine	ug/L	0.02	GW-2	--	--	< 0.1 U	--	< 0.1 U	--	< 0.1 U	--	< 0.1 U
2,4,5-Trichlorophenol	ug/L	600	GW-2	< 1 U	--	< 1 U	--	< 1 U	< 1.1 U	< 1 U	--	< 1 U
2,4,6-Trichlorophenol	ug/L	0.28	GW-2	< 1 U	--	< 1 U	--	< 1 U	< 1.1 U	< 1 U	--	< 1 U
2,4-Dichlorophenol	ug/L	10	GW-2	< 1 U	--	< 1 U	--	< 1 U	< 1.1 U	< 1 U	--	< 1 U
2,4-Dimethylphenol	ug/L	2.9	GW-3	< 1 U	--	< 1 UJ	--	< 1 UJ	< 1.1 U	< 1 UJ	--	< 1 U
2,4-Dinitrophenol	ug/L	100	GW-2	< 2 UJ	--	< 3 U	--	< 3 U	< 2.1 UJ	< 3 U	--	< 3 U
2,4-Dinitrotoluene	ug/L	0.18	GW-2	< 1 U	--	< 0.5 U	--	< 0.5 U	< 1.1 U	< 0.5 U	--	< 0.5 U
2,6-Dinitrotoluene	ug/L			< 1 U	--	< 0.5 U	--	< 0.5 U	< 1.1 U	< 0.5 U	--	< 0.5 U
2-Chloronaphthalene	ug/L	100	GW-2	< 0.01 U	--	< 0.1 U	--	< 0.1 U	< 0.01 U	< 0.1 U	--	< 0.1 U
2-Chlorophenol	ug/L	17	GW-2	< 0.2 U	--	< 1 U	--	< 1 U	< 0.2 U	< 1 U	--	< 1 U
2-Methylphenol	ug/L	9.8	GW-3	**0.06 J**	--	< 1 U	--	< 1 U	< 0.2 U	< 1 U	--	< 1 U
2-Nitroaniline	ug/L			< 1 U	--	< 0.5 U	--	< 0.5 U	< 1.1 U	< 0.5 U	--	< 0.5 U
2-Nitrophenol	ug/L			< 1 U	--	< 1 U	--	< 1 U	< 1.1 U	< 1 U	--	< 1 U
3 & 4 Methylphenol	ug/L			--	--	< 2 U	--	< 2 U	--	< 2 U	--	< 2 U
3,3'-Dichlorobenzidine	ug/L	0.0033	GW-2	< 1 U	--	< 1 U	--	< 1 U	< 1.1 U	< 1 U	--	< 1 U
3-Nitroaniline	ug/L			< 1 U	--	< 10 U	--	< 10 U	< 1.1 U	< 10 U	--	< 10 U
4,6-Dinitro-2-methylphenol	ug/L	7	GW-2	< 2 U	--	< 3 U	--	< 3 U	< 2.1 U	< 3 U	--	< 3 U
4-Bromophenyl phenyl ether	ug/L			< 0.2 U	--	< 0.1 U	--	< 0.1 U	< 0.2 U	< 0.1 U	--	< 0.1 U
4-Chloro-3-methylphenol	ug/L	36	GW-2	< 1 U	--	< 1 U	--	< 1 U	< 1.1 U	< 1 U	--	< 1 U
4-Chloroaniline	ug/L			< 1 UJ	--	< 10 U	--	< 10 U	--	< 10 U	--	< 10 U
4-Chlorophenyl phenyl ether	ug/L			< 0.2 U	--	< 0.1 U	--	< 0.1 U	< 0.2 U	< 0.1 U	--	< 0.1 U
4-Methylphenol	ug/L	110	GW-3	**0.1 J**	--	--	--	--	< 0.2 U	--	--	--
4-Nitroaniline	ug/L			< 1 U	--	< 10 U	--	< 10 U	< 1.1 U	< 10 U	--	< 10 U
4-Nitrophenol	ug/L			< 1 U	--	< 3 U	--	< 3 U	< 1.1 U	< 3 U	--	< 3 U
Benzoic acid	ug/L	590	GW-3	< 2 U	--	< 5 U	--	< 5 U	< 2.1 U	< 5 U	--	< 5 U
Benzyl alcohol	ug/L	56	GW-3	< 0.2 U	--	< 1 U	--	< 1 U	< 0.2 U	< 1 U	--	< 1 U
Benzyl butyl phthalate	ug/L	0.013	GW-2	< 0.2 U	--	< 1 U	--	< 1 U	< 0.2 U	< 1 U	--	< 1 U
Bis(2-chloro-1-methylethyl) ether	ug/L	100	GW-2	< 0.2 U	--	< 0.1 U	--	< 0.1 U	< 0.2 U	< 0.1 U	--	< 0.1 U
Bis(2-chloroethoxy)methane	ug/L			< 0.2 U	--	< 0.1 U	--	< 0.1 U	< 0.2 U	< 0.1 U	--	< 0.1 U
Bis(2-chloroethyl) ether	ug/L	0.06	GW-2	< 0.2 U	--	< 0.1 U	--	< 0.1 U	< 0.2 U	< 0.1 U	--	< 0.1 U
Bis(2-ethylhexyl) phthalate	ug/L	0.046	GW-2	**0.6 J**	--	< 1.6 U	--	< 1.6 U	< 0.2 U	< 1.6 U	--	< 1.6 U
Carbazole	ug/L			**1.2**	--	**1.3**	--	< 0.1 U	< 0.01 U	< 0.1 U	--	< 0.1 U
Dibenzofuran	ug/L	3.1	GW-3	**0.322**	--	**0.39**	--	< 0.1 U	**0.002 J**	< 0.1 U	--	< 0.1 U
Diethyl phthalate	ug/L	93	GW-3	< 0.2 U	--	< 1 U	--	< 1 U	< 0.2 U	< 1 U	--	< 1 U
Dimethyl phthalate	ug/L	59	GW-3	< 0.2 U	--	< 1 U	--	< 1 U	< 0.2 U	< 1 U	--	< 1 U
Di-n-butyl phthalate	ug/L	8	GW-2	**0.5**	--	< 1 U	--	< 1 U	< 0.2 U	< 1 U	--	< 1 U
Di-n-octyl phthalate	ug/L	2.3	GW-3	< 0.2 U	--	< 1 J	--	< 1 U	< 0.2 U	< 1 U	--	< 1 U
Hexachlorobenzene	ug/L	5E-06	GW-2	< 0.0013 U	--	< 0.1 U	--	< 0.1 U	< 0.0013 U	< 0.1 U	--	< 0.1 U
Hexachlorobutadiene	ug/L	0.01	GW-2	< 0.2 U	--	< 0.1 U	--	< 0.1 U	< 0.0013 U	< 0.5 U	--	< 0.5 U
Hexachlorocyclopentadiene	ug/L	1	GW-2	< 1 UJ	--	< 0.3 U	--	< 0.3 U	< 1.1 UJ	< 0.3 U	--	< 0.3 U
Hexachloroethane	ug/L	0.02	GW-2	< 0.2 U	--	< 0.1 U	--	< 0.1 U	< 0.2 U	< 0.1 U	--	< 0.1 U
Isophorone	ug/L	110	GW-2	< 0.2 U	--	< 0.1 U	--	< 0.1 U	< 0.2 U	< 0.1 U	--	< 0.1 U
Nitrobenzene	ug/L	100	GW-2	< 0.2 U	--	< 0.1 U	--	< 0.1 U	< 0.2 U	< 0.1 U	--	< 0.1 U
N-Nitrosodimethylamine	ug/L	0.34	GW-2	--	--	< 0.1 U	--	< 0.1 U	--	< 0.1 U	--	< 0.1 U
N-Nitroso-di-n-propylamine	ug/L	0.058	GW-2	< 0.2 U	--	< 0.1 U	--	< 0.1 U	< 0.2 U	< 0.1 U	--	< 0.1 U
N-Nitrosodiphenylamine	ug/L	0.55	GW-3	**0.3**	--	**0.4**	--	< 0.1 U	< 0.2 U	< 0.1 U	--	< 0.1 U
Pentachlorophenol	ug/L	0.002	GW-2	< 1 U	--	< 0.5 U	--	< 0.5 U	< 1.1 U	< 0.5 U	--	< 0.5 U
Perylene	ug/L			< 0.01 U	--	--	--	--	< 0.01 U	--	--	--
Phenol	ug/L	100	GW-3	**0.1 J**	--	< 1 U	--	< 1 U	< 0.2 U	< 1 U	--	< 1 U

Table I.3.A. Groundwater Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL.

Location				MW-05				MW-05D	MW-06			MW-06D
Date				03/31/21	05/27/21	10/26/22	03/23/23	10/26/22	03/29/21	10/26/22	03/23/23	10/31/22
Sample				MW-05-210331	MW-05-210527	MW-05-221026	MW-05-230323	MW-05D-221026	MW-06-210329	MW-06-221026	MW-06-230323	MW-06D-221031
Hydrostatigraphic Unit				Fill	Fill	Fill	Fill	Alluvial	Fill	Fill	Fill	Alluvial
Tidal Stage				Lower-Low	Lower-Low	Higher-Low	Lower-Low	Higher-Low	Lower-High	Higher-Low	Higher-High	Higher-Low
Tidal Trend				Incoming	Incoming	Outgoing	Incoming	Outgoing	Incoming	Outgoing	Outgoing	Outgoing
Analyte	Unit	Preliminary RI SL	Basis of SL									
Pesticides												
2,4'-DDD	ug/L			< 1 U	--	--	--	--	< 0.0013 U	--	--	--
2,4'-DDE	ug/L			< 0.0013 U	--	--	--	--	< 0.0013 U	--	--	--
2,4'-DDT	ug/L			< 0.0013 U	--	--	--	--	< 0.0013 U	--	--	--
4,4'-DDD	ug/L	7.9E-06	GW-2	< 0.0013 U	--	< 0.00125 U	--	< 0.00125 U	< 0.0013 U	< 0.00125 U	< 0.00125 U	< 0.00125 U
4,4'-DDE	ug/L	8.8E-07	GW-2	< 0.0013 U	--	< 0.00125 U	--	< 0.00125 U	< 0.0013 U	< 0.00125 U	< 0.00125 U	< 0.00125 U
4,4'-DDT	ug/L	1.2E-06	GW-2	< 0.0013 U	--	< 0.00125 U	--	< 0.00125 U	< 1 U	< 0.00125 U	< 0.00125 U	< 0.00125 U
Aldrin	ug/L	4.1E-08	GW-2	**0.0663 J**	--	< 0.000625 U	--	**0.0053**	< 1 U	< 0.000625 U	< 0.000625 U	< 0.000625 U
Alpha-BHC	ug/L	4.8E-05	GW-2	< 1 U	--	< 0.000625 U	--	< 0.000625 U	**0.0031**	< 0.000625 U	< 0.000625 U	< 0.000625 U
Beta-BHC	ug/L	0.0014	GW-2	< 0.0006 U	--	< 0.000625 U	--	< 0.000625 U	< 0.0006 U	< 0.000625 U	< 0.000625 U	< 0.000625 U
Chlordane	ug/L	2.2E-05	GW-2	--	--	--	--	--	--	--	--	--
cis-Chlordane	ug/L	7.8E-05	GW-3	< 0.0006 U	--	< 0.000625 U	--	< 0.000625 U	< 0.0006 U	< 0.000625 U	< 0.0007 U	< 0.000625 U
cis-Nonachlor	ug/L			< 0.0013 U	--	--	--	--	< 0.0013 U	--	--	--
Delta-BHC	ug/L			< 0.0006 U	--	< 0.000625 U	--	< 0.000625 U	< 0.0006 U	< 0.000625 U	< 0.000625 U	< 0.000625 U
Dieldrin	ug/L	7E-08	GW-2	**0.0158**	--	< 0.00125 U	--	**0.027**	**0.0265**	**0.071**	**0.044**	**0.0066**
Endosulfan I	ug/L	0.0087	GW-2	< 0.0006 U	--	< 0.000625 U	--	< 0.000625 U	< 0.0006 U	< 0.000625 U	< 0.000625 U	< 0.000625 U
Endosulfan II	ug/L	0.0087	GW-2	< 0.0013 U	--	< 0.00125 U	--	< 0.00125 U	< 0.0013 U	< 0.00125 U	< 0.00125 U	< 0.00125 U
Endosulfan Sulfate	ug/L	10	GW-2	< 0.0013 UJ	--	< 0.00125 U	--	< 0.00125 U	< 0.0013 UJ	< 0.00125 U	< 0.00125 U	< 0.00125 U
Endrin	ug/L	0.002	GW-2	< 0.0013 U	--	< 0.00125 U	--	< 0.00125 U	< 0.0013 U	< 0.00125 U	< 0.00125 U	< 0.00125 U
Endrin Aldehyde	ug/L	0.035	GW-2	< 0.0013 UJ	--	< 0.00125 U	--	< 0.00125 U	< 0.0013 UJ	< 0.00125 U	< 0.00125 U	< 0.00125 U
Endrin ketone	ug/L			< 0.0013 UJ	--	< 0.00125 U	--	< 0.00125 U	< 0.0013 UJ	< 0.00125 U	< 0.00125 U	< 0.00125 U
Heptachlor	ug/L	3.4E-07	GW-2	< 1 U	--	< 0.000625 U	--	< 0.000625 U	< 0.0006 U	< 0.000625 U	< 0.000625 U	< 0.000625 U
Heptachlor Epoxide	ug/L	2.4E-06	GW-2	< 0.0006 U	--	< 0.000625 U	--	< 0.000625 U	< 0.0006 U	< 0.000625 U	< 0.0008 U	< 0.000625 U
Lindane	ug/L	0.13	GW-2	< 0.0006 U	--	< 0.000625 U	--	< 0.000625 U	< 0.0006 U	< 0.000625 U	< 0.00076 U	< 0.000625 U
Methoxychlor	ug/L	0.02	GW-2	< 0.0063 U	--	< 0.00625 U	--	< 0.00625 U	< 0.0063 U	< 0.00625 U	< 0.00625 U	< 0.00625 U
Mirex	ug/L	0.001	GW-2	< 0.0013 U	--	--	--	--	< 0.0013 U	--	--	--
Oxychlordane	ug/L			< 0.0013 U	--	--	--	--	< 0.0013 U	--	--	--
Toxaphene	ug/L	3.2E-05	GW-2	--	--	< 0.0625 U	--	< 0.0625 U	--	< 0.0625 U	< 0.0625 U	< 0.0625 U
trans-Chlordane	ug/L	7.8E-05	GW-3	< 0.0006 U	--	< 0.000625 U	--	< 0.000625 U	< 0.0006 U	< 0.000625 U	< 0.000625 U	< 0.000625 U
trans-Nonachlor	ug/L			< 0.0013 U	--	--	--	--	< 0.0013 U	--	--	--
Total Petroleum Hydrocarbons (TPH)												
Gasoline-Range Organics	ug/L	800	GW-2	**282 J**	--	< 100 U	--	< 100 U	< 100 U	< 100 U	--	< 100 U
Diesel-Range Organics	ug/L	500	GW-2	**4430**	--	**2100**	--	**770**	< 105 U	**100**	--	< 50 U
Motor Oil-Range Organics	ug/L	500	GW-2	**923**	--	**1300**	--	**860**	< 211 U	< 250 U	--	< 250 U
Diesel and Oil Extended-Range Organics	ug/L	500	GW-2	**5350**	--	**3400**	--	**1630**	< 211 U	**100**	--	< 250 U
Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)												
Benzene	ug/L	1.6	GW-2	**0.63**	--	**0.54**	--	< 0.35 U	< 0.2 U	< 0.35 U	--	< 0.35 U
Toluene	ug/L	100	GW-2	**0.36**	--	< 1 U	--	< 1 U	< 0.2 U	< 1 U	--	< 1 U
Ethylbenzene	ug/L	21	GW-2	**0.46**	--	< 1 U	--	< 1 U	< 0.2 U	< 1 U	--	< 1 U
Total Xylenes	ug/L	110	GW-2	**2.72**	--	< 2 U	--	< 2 U	< 0.6 U	< 2 U	--	< 2 U
Volatile Organic Compounds (VOCs)												
1,1,1,2-Tetrachloroethane	ug/L	7.1	GW-4	< 0.2 U	--	< 1 U	--	< 1 U	< 0.2 U	< 1 U	--	< 1 U
1,1,1-Trichloroethane	ug/L	5400	GW-4	< 0.2 U	--	< 1 U	--	< 1 U	< 0.2 U	< 1 U	--	< 1 U
1,1,2 - Trichlorotrifluoroethane	ug/L	170	GW-4	< 0.2 U	--	--	--	--	< 0.2 U	--	--	--
1,1,2,2-Tetrachloroethane	ug/L	0.3	GW-2	< 0.2 U	--	< 0.2 U	--	< 0.2 U	< 0.2 U	< 0.2 U	--	< 0.2 U
1,1,2-Trichloroethane	ug/L	0.9	GW-2	< 0.2 U	--	< 0.5 U	--	< 0.5 U	< 0.2 U	< 0.5 U	--	< 0.5 U
1,1-Dichloroethane	ug/L	11	GW-4	< 0.2 U	--	< 1 U	--	< 1 U	< 0.2 U	< 1 U	--	< 1 U
1,1-Dichloroethene	ug/L	130	GW-4	< 0.2 U	--	< 1 U	--	< 1 U	< 0.2 U	< 1 U	--	< 1 U
1,1-Dichloropropene	ug/L			< 0.2 U	--	< 1 U	--	< 1 U	< 0.2 U	< 1 U	--	< 1 U
1,2,3-Trichlorobenzene	ug/L			< 0.5 U	--	< 1 U	--	< 1 U	< 0.5 U	< 1 U	--	< 1 U
1,2,3-Trichloropropane	ug/L	20	GW-4	< 0.5 U	--	< 1 U	--	< 1 U	< 0.5 U	< 1 U	--	< 1 U
1,2,4-Trichlorobenzene	ug/L	0.037	GW-2	< 0.2 U	--	< 0.1 U	--	< 0.1 U	< 0.2 U	< 0.1 U	--	< 1 U
1,2,4-Trimethylbenzene	ug/L	240	GW-4	< 0.2 U	--	< 1 U	--	< 1 U	< 0.2 U	< 1 U	--	< 1 U
1,2-Dibromo-3-chloropropane	ug/L	0.042	GW-4	< 0.5 U	--	< 10 U	--	< 10 U	< 0.5 U	< 10 U	--	< 10 U
1,2-Dibromoethane (EDB)	ug/L	0.3	GW-4	< 0.2 U	--	< 1 U	--	< 1 U	< 0.2 U	< 1 U	--	< 1 U
1,2-Dichlorobenzene	ug/L	4.5	GW-3	**3.34**	--	**0.69**	--	< 0.1 U	< 0.2 U	< 1 U	--	< 1 U
1,2-Dichloroethane (EDC)	ug/L	3.5	GW-4	< 0.2 U	--	< 0.2 U	--	< 0.2 U	< 0.2 U	< 0.2 U	--	< 0.2 U
1,2-Dichloropropane	ug/L	3.1	GW-2	< 0.2 U	--	< 1 U	--	< 1 U	< 0.2 U	< 1 U	--	< 1 U
1,3,5-Trimethylbenzene	ug/L	170	GW-4	< 0.2 U	--	< 1 U	--	< 1 U	< 0.2 U	< 1 U	--	< 1 U
1,3-Dichlorobenzene	ug/L	2	GW-2	**0.08 J**	--	< 0.1 U	--	< 0.1 U	< 0.2 U	< 1 U	--	< 1 U
1,3-Dichloropropane	ug/L	1.2	GW-2	< 0.2 U	--	< 1 U	--	< 1 U	< 0.2 U	< 1 U	--	< 1 U
1,4-Dichloro-2-Butene	ug/L			< 1 UJ	--	--	--	--	< 1 U	--	--	--
1,4-Dichlorobenzene	ug/L	5	GW-4	**0.5**	--	**0.14**	--	< 0.1 U	< 0.2 U	< 0.1 U	--	< 1 U
2,2-Dichloropropane	ug/L			< 0.2 U	--	< 1 U	--	< 1 U	< 0.2 U	< 1 U	--	< 1 U
2-Butanone	ug/L	1700000	GW-4	< 5 U	--	< 20 U	--	< 20 U	< 5 U	< 20 U	--	< 20 U
2-Chlorotoluene	ug/L			< 0.2 U	--	< 1 U	--	< 1 U	< 0.2 U	< 1 U	--	< 1 U
2-Hexanone	ug/L	7300	GW-4	< 5 U	--	< 10 U	--	< 10 U	< 5 U	< 10 U	--	< 10 U
2-Pentanone	ug/L			< 5 UJ	--	--	--	--	< 5 U	--	--	--
4-Chlorotoluene	ug/L			< 0.2 U	--	< 1 U	--	< 1 U	< 0.2 U	< 1 U	--	< 1 U
4-Methyl-2-pentanone	ug/L	470000	GW-4	< 5 U	--	< 10 U	--	< 10 U	< 5 U	< 10 U	--	< 10 U
Acetone	ug/L			**5.32 J**	--	< 50 U	--	< 50 U	< 5 U	< 50 U	--	< 50 U
Acrolein	ug/L	1.1	GW-2	< 5 U	--	--	--	--	< 5 U	--	--	--
Acrylonitrile	ug/L	0.028	GW-2	< 1 U	--	--	--	--	< 1 U	--	--	--
Bromobenzene	ug/L	630	GW-4	< 0.2 U	--	< 1 U	--	< 1 U	< 0.2 U	< 1 U	--	< 1 U
Bromochloromethane	ug/L			< 0.2 U	--	--	--	--	< 0.2 U	--	--	--
Bromodichloromethane	ug/L	1.4	GW-4	< 0.2 U	--	< 0.5 U	--	< 0.5 U	< 0.2 U	< 0.5 U	--	< 0.5 U
Bromoform	ug/L	12	GW-2	< 0.2 UJ	--	< 5 U	--	< 5 U	< 0.2 U	< 5 U	--	< 5 U
Bromomethane	ug/L	11	GW-4	< 1 U	--	< 5 U	--	< 5 U	< 1 U	< 5 U	--	< 5 U
Carbon Disulfide	ug/L	840	GW-4	< 0.2 U	--	--	--	--	< 0.2 U	--	--	--
Carbon Tetrachloride	ug/L	0.35	GW-2	< 0.2 U	--	< 0.5 U	--	< 0.5 U	< 0.2 U	< 0.5 U	--	< 0.5 U
Chlorobenzene	ug/L	200	GW-2	**1.44**	--	**1.3**	--	< 1 U	< 0.2 U	< 1 U	--	< 1 U
Chloroethane	ug/L	15000	GW-4	< 0.2 U	--	< 1 U	--	< 1 U	< 0.2 U	< 1 U	--	< 1 U
Chloroform	ug/L	1.2	GW-4	< 0.2 U	--	< 1 U	--	< 1 U	< 0.2 U	< 1 U	--	< 1 U
Chloromethane	ug/L	150	GW-4	< 0.5 U	--	< 10 U	--	< 10 U	< 0.5 U	< 10 U	--	< 10 U
cis-1,2-Dichloroethene (DCE)	ug/L	180	GW-4	**0.12 J**	--	< 1 U	--	< 1 U	< 0.2 U	< 1 U	--	< 1 U
cis-1,3-Dichloropropene	ug/L	1.2	GW-2	< 0.2 U	--	< 0.4 U	--	< 0.4 U	< 0.2 U	< 0.4 U	--	< 0.4 U
Dibromochloromethane	ug/L	2.2	GW-2	< 0.2 U	--	< 0.5 U	--	< 0.5 U	< 0.2 U	< 0.5 U	--	< 0.5 U
Dibromomethane	ug/L	97	GW-4	< 0.2 U	--	< 1 U	--	< 1 U	< 0.2 U	< 1 U	--	< 1 U
Dichlorodifluoromethane	ug/L	4.2	GW-4	< 0.2 U	--	< 1 U	--	< 1 U	< 0.2 U	< 1 U	--	< 1 U
Isopropylbenzene	ug/L	910	GW-4	**1.74**	--	< 1 U	--	< 1 U	< 0.2 U	< 1 U	--	< 1 U
m,p-Xylenes	ug/L			**1.22**	--	< 2 U	--	< 2 U	< 0.4 U	< 2 U	--	< 2 U
Methyl tert-butyl ether (MTBE)	ug/L	860	GW-4	< 0.5 U	--	< 1 U	--	< 1 U	< 0.5 U	< 1 U	--	< 1 U
Methylene Chloride	ug/L	100	GW-2	< 1 U	--	**6.5 J**	--	**6.2 J**	< 1 U	**7.8 J**	--	< 5 U
Methyliodide	ug/L			< 1 U	--	--	--	--	< 1 U	--	--	--
n-Butylbenzene	ug/L			**0.65**	--	--	--	--	< 0.2 U	--	--	--
n-Hexane	ug/L	7.2	GW-4	--	--	< 5 U	--	< 5 U	--	< 5 U	--	< 5 U
n-Propylbenzene	ug/L	2300	GW-4	**2.63**	--	< 1 U	--	< 1 U	< 0.2 U	< 1 U	--	< 1 U
o-Xylene	ug/L			**1.5**	--	< 1 U	--	< 1 U	< 0.2 U	< 1 U	--	< 1 U
p-Isopropyltoluene	ug/L	88	GW-4	< 0.2 U	--	< 1 U	--	< 1 U	< 0.2 U	< 1 U	--	< 1 U
sec-Butylbenzene	ug/L			**0.68**	--	< 1 U	--	< 1 U	< 0.2 U	< 1 U	--	< 1 U
Styrene	ug/L	8500	GW-4	< 0.2 U	--	< 1 U	--	< 1 U	< 0.2 U	< 1 U	--	< 1 U
tert-Butylbenzene	ug/L			**0.09 J**	--	< 1 U	--	< 1 U	< 0.2 U	< 1 U	--	< 1 U
Tetrachloroethene (PCE)	ug/L	2.9	GW-2	**0.1 J**	--	< 1 U	--	< 1 U	**2.99**	< 1 U	--	< 1 U
trans-1,2-Dichloroethene	ug/L	77	GW-4	< 0.2 U	--	< 1 U	--	< 1 U	< 0.2 U	< 1 U	--	< 1 U
trans-1,3-Dichloropropene	ug/L	1.2	GW-2	< 0.2 U	--	< 0.4 U	--	< 0.4 U	< 0.2 U	< 0.4 U	--	< 0.4 U
Trichloroethene (TCE)	ug/L	0.7	GW-2	< 0.2 U	--	< 0.5 U	--	< 0.5 U	**0.09 J**	< 0.5 U	--	< 0.5 U
Trichlorofluoromethane	ug/L	120	GW-4	< 0.2 U	--	< 1 U	--	< 1 U	< 0.2 U	< 1 U	--	< 1 U
Vinyl Acetate	ug/L	8100	GW-4	< 0.2 U	--	--	--	--	< 0.2 U	--	--	--
Vinyl Chloride	ug/L	0.18	GW-2	**0.35**	--	**0.23**	--	< 0.02 U	< 0.2 U	< 0.02 U	--	< 0.02 U
Conventionals												
Total Organic Carbon	ug/L			**14200**	--	--	--	--	**2040**	--	--	--
Total Suspended Solids	mg/L			**17**	--	**6**	**14**	**7.2**	< 1 U	< 5 U	< 5 U	**7.6**
Field Parameters												
Temperature	deg C			**11.6**	**12.8**	**17.2**	**10.4**	**15.2**	**9.7**	**9.32**	**8.45**	**13.7**
Specific Conductance	uS/cm			**259**	**198**	**843**	**521**	**704**	**109**	**6670**	**5350**	**934**
Dissolved Oxygen	mg/L			**0.51**	**0.84**	**0.11**	**0.12**	**0.27**	**5.27**	**5.77**	**10.5**	**0.97**
pH	pH units			**5.84**	**6.1**	**5.85**	**6.4**	**6.2**	**6.34**	**5.9**	**6.38**	**6.42**
Oxidation Reduction Potential	mV			**72.4**	**65.6**	**-66**	**3.2**	**-30.3**	**73.3**	**192**	**223**	**36.2**
Turbidity	NTU			**5.38**	**2.81**	**15.2**	**2.69**	**7.87**	**3.17**	**6.91**	**1.43**	**23.8**

Table I.3.A. Groundwater Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL.

Location				MW-07			MW-08				MW-08D
Date				03/29/21	10/27/22	03/23/23	03/29/21	05/27/21	10/31/22	03/22/23	10/25/22
Sample				MW-07-210329	MW-07-221027	MW-07-230323	MW-08-210329	MW-08-210527	MW-08-221031	MW-08-230322	MW-08D-221025
Hydrostatigraphic Unit				Fill	Fill	Fill	Fill	Fill	Fill	Fill	Alluvial
Tidal Stage				Lower-Low	Higher-High	Higher-High	Lower-Low	Higher-High	Higher-High	Lower-Low	Higher-High
Tidal Trend				Incoming	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing
Analyte	Unit	Preliminary RI SL	Basis of SL								
Metals, Total											
Arsenic	ug/L	8	GW-5	--	**14.5**	**7.31**	**0.666**	--	--	**12.4**	**3.47**
Barium	ug/L	200	GW-2	--	--	--	--	--	--	--	--
Cadmium	ug/L	1.2	GW-3	--	< 1 U	< 0.2 UJ	< 0.1 U	--	< 1 U	< 0.2 UJ	< 0.2 U
Chromium	ug/L	27	GW-2	--	**11.4**	**1.69 J**	**0.816**	--	**7.07**	**1.9**	**1.58**
Copper	ug/L	3.1	GW-2	--	**11.3**	**4.22 J**	**2.17**	--	**13.1**	**7.45**	**3.32**
Lead	ug/L	8.1	GW-2	--	< 1 U	< 0.2 U	**0.924**	--	< 1 U	< 0.2 U	< 0.2 U
Mercury	ug/L	0.025	GW-2	--	< 0.0008 U	--	< 0.02 UJ	--	**0.002 J**	--	**0.0015**
Nickel	ug/L	8.2	GW-2	--	**122**	**4.67**	**0.366 J**	--	**19.8**	**10.7**	**2.81**
Selenium	ug/L	71	GW-2	--	--	--	--	--	--	--	--
Silver	ug/L	0.91	GW-2	--	--	--	--	--	--	--	--
Zinc	ug/L	81	GW-2	--	**22.7**	**6.32**	< 6 U	--	**10.5**	**5.76**	**1.1**
Metals, Dissolved											
Arsenic	ug/L	8	GW-5	--	**15.6**	**7.37**	**0.592**	--	**20.6**	**13.2**	**4.74**
Cadmium	ug/L	1.2	GW-3	--	< 1 U	< 0.2 UJ	< 0.1 U	--	< 0.2 U	< 0.2 UJ	< 0.2 U
Chromium	ug/L	27	GW-2	--	**9.68**	**1.61**	**0.443 J**	--	**5.9**	**1.82**	**0.936**
Copper	ug/L	3.1	GW-2	--	**11**	**4.22**	**2**	--	**5.23**	**4.41**	**2.39**
Lead	ug/L	8.1	GW-2	--	< 0.2 U	< 0.2 U	**0.073 J**	--	< 0.2 U	< 0.2 U	< 0.2 U
Mercury	ug/L	0.025	GW-2	--	**0.00088**	--	< 0.02 UJ	--	**0.0018**	--	**0.0011**
Nickel	ug/L	8.2	GW-2	--	**131**	**5.29**	**0.272 J**	--	**23.9**	**9.85**	**1.24**
Silver	ug/L	0.91	GW-2	--	--	--	--	--	--	--	--
Zinc	ug/L	81	GW-2	--	**24.8**	**8.1**	< 5 U	--	**10.6**	**5.12**	**2.16**
Metals, Total, Prepared Using Reductive Precipitation											
Arsenic	ug/L	8	GW-5	--	--	< 0.50 U	--	--	--	< 0.50 U	--
Cadmium	ug/L	1.2	GW-3	--	--	**0.047**	--	--	--	**0.090**	--
Chromium	ug/L	27	GW-2	--	--	**0.69**	--	--	--	**0.72**	--
Copper	ug/L	3.1	GW-2	--	--	**2.31**	--	--	--	**1.26**	--
Lead	ug/L	8.1	GW-2	--	--	**0.052**	--	--	--	< 0.050 U	--
Nickel	ug/L	8.2	GW-2	--	--	**2.31**	--	--	--	**7.95**	--
Zinc	ug/L	81	GW-2	--	--	**5.48**	--	--	--	**3.78**	--
Metals, Dissolved, Prepared Using Reductive Precipitation											
Arsenic	ug/L	8	GW-5	--	--	< 0.50 U	--	--	--	< 0.50 U	--
Cadmium	ug/L	1.2	GW-3	--	--	**0.045**	--	--	--	**0.075**	--
Chromium	ug/L	27	GW-2	--	--	**0.31**	--	--	--	**1.13**	--
Copper	ug/L	3.1	GW-2	--	--	**2.11**	--	--	--	**1.14**	--
Lead	ug/L	8.1	GW-2	--	--	< 0.050 U	--	--	--	< 0.050 U	--
Nickel	ug/L	8.2	GW-2	--	--	**2.50**	--	--	--	**6.88**	--
Zinc	ug/L	81	GW-2	--	--	**5.20**	--	--	--	**3.05**	--
Butyl Tins											
Dibutyltin Ion	ug/L			< 0.289 UJ	< 0.0077 U	--	< 0.289 U	--	< 0.0077 U	--	< 0.0077 U
Monobutyltin	ug/L			< 0.204 UJ	**0.0303**	--	< 0.204 U	--	**0.0367**	--	**0.0192**
Tetrabutyltin	ug/L			< 0.3 UJ	< 0.03 U	--	< 0.3 U	--	< 0.03 U	--	< 0.03 U
Tributyltin Ion	ug/L	4.3E-06	GW-3	< 0.193 UJ	< 0.0052 U	--	< 0.193 U	--	< 0.0052 U	--	< 0.0052 U
Polychlorinated Biphenyl (PCB) Aroclors											
Total PCB Aroclors (ND = 0)	ug/L	7.0E-06	GW-2	**0.01 J**	< 0.0035 U	< 0.0035 U	**0.003 J**	--	< 0.0035 U	< 0.0035 U	< 0.0035 U
Polychlorinated Biphenyl (PCB) Congeners											
Total PCB Congeners (ND = 0)	ug/L	7.0E-06	GW-2	--	--	--	--	**0.00288 J**	--	--	--
Total PCB TEQ (ND = 0)	ug/L	4.4E-09	GW-2	--	--	--	--	**7.21E-10**	--	--	--
Dioxins/Furans											
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	ug/L	5.1E-09	GW-2	--	--	--	--	--	--	**1.01E-06**	--
2,3,7,8-TCDD	ug/L	5.1E-09	GW-2	--	--	--	--	--	--	< 4.88E-07 U	--
Polycyclic Aromatic Hydrocarbons (PAHs)											
1-Methylnaphthalene	ug/L	0.17	GW-4	**0.002 J**	< 0.1 U	--	< 0.013 U	--	< 0.1 U	--	< 0.1 U
2-Methylnaphthalene	ug/L	14	GW-3	**0.003 J**	< 0.1 U	--	**0.003 J**	--	< 0.1 U	--	< 0.1 U
Acenaphthene	ug/L	5.3	GW-3	< 0.01 U	< 0.01 U	--	< 0.013 U	--	< 0.01 U	--	< 0.01 U
Acenaphthylene	ug/L			< 0.01 U	< 0.01 U	--	< 0.013 U	--	< 0.01 U	--	< 0.01 U
Anthracene	ug/L	2.1	GW-3	< 0.01 U	< 0.01 U	--	< 0.013 U	--	< 0.01 U	--	< 0.01 U
Benzo(g,h,i)perylene	ug/L			< 0.01 U	< 0.02 U	--	< 0.013 U	--	< 0.02 U	--	< 0.02 U
Fluoranthene	ug/L	1.8	GW-3	**0.002 J**	< 0.01 U	--	< 0.013 U	--	< 0.01 U	--	< 0.01 U
Fluorene	ug/L	3.7	GW-3	< 0.01 U	< 0.01 U	--	< 0.013 U	--	< 0.01 U	--	< 0.01 U
Naphthalene	ug/L	1.4	GW-2	**0.01**	< 0.1 U	--	< 0.013 U	--	< 1 U	--	< 1 U
Phenanthrene	ug/L			**0.002 J**	< 0.01 U	--	**0.002 J**	--	< 0.01 U	--	< 0.01 U
Pyrene	ug/L	2	GW-3	< 0.01 U	< 0.01 U	--	< 0.013 U	--	< 0.01 U	--	< 0.01 U
Benz(a)anthracene	ug/L	0.00016	GW-2	< 0.01 U	< 0.01 U	--	< 0.013 U	--	< 0.01 U	--	< 0.01 U
Benzo(a)pyrene	ug/L	1.6E-05	GW-2	< 0.01 U	< 0.01 U	--	< 0.013 U	--	< 0.01 U	--	< 0.01 U
Benzo(b)fluoranthene	ug/L	0.00016	GW-2	< 0.01 U	< 0.01 U	--	< 0.013 U	--	< 0.01 U	--	< 0.01 U
Benzo(j)fluoranthene	ug/L			< 0.01 U	--	--	< 0.013 U	--	--	--	--
Benzo(j,k)fluoranthene	ug/L			--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	ug/L	0.0013	GW-2	< 0.01 U	< 0.01 U	--	< 0.013 U	--	< 0.01 U	--	< 0.01 U
Chrysene	ug/L	0.016	GW-2	**0.002 J**	< 0.01 U	--	< 0.013 U	--	< 0.01 U	--	< 0.01 U
Dibenzo(a,h)anthracene	ug/L	1.6E-05	GW-2	< 0.01 UJ	< 0.01 U	--	< 0.013 UJ	--	< 0.01 U	--	< 0.01 U
Indeno(1,2,3-cd)pyrene	ug/L	0.00016	GW-2	< 0.01 U	< 0.01 U	--	< 0.013 U	--	< 0.01 U	--	< 0.01 U
Total Benzofluoranthenes	ug/L			< 0.01 U	< 0.01 U	--	< 0.013 U	--	< 0.01 U	--	< 0.01 U
Total HPAHs (ND = 1/2 RDL)	ug/L			**0.049 J**	< 0.02 U	--	< 0.013 UJ	--	< 0.02 U	--	< 0.02 U
Total LPAHs (ND = 1/2 RDL)	ug/L			**0.032 J**	< 0.1 U	--	**0.0345 J**	--	< 1 U	--	< 1 U
Total cPAHs TEQ (ND = 1/2 RDL)	ug/L	1.6E-05	GW-2	**0.00752 J**	< 0.00755 U	--	< 0.00982 UJ	--	< 0.00755 U	--	< 0.00755 U
Semivolatile Organic Compounds (SVOCs)											
1,2-Diphenylhydrazine	ug/L	0.02	GW-2	--	< 0.1 U	--	--	--	< 0.1 U	--	< 0.1 U
2,4,5-Trichlorophenol	ug/L	600	GW-2	< 1 U	< 1 U	--	--	--	< 1 U	--	< 1 U
2,4,6-Trichlorophenol	ug/L	0.28	GW-2	< 1 U	< 1 U	--	--	--	< 1 U	--	< 1 U
2,4-Dichlorophenol	ug/L	10	GW-2	< 1 U	< 1 U	--	--	--	< 1 U	--	< 1 U
2,4-Dimethylphenol	ug/L	2.9	GW-3	< 1 U	< 1 U	--	--	--	< 1 U	--	< 1 U
2,4-Dinitrophenol	ug/L	100	GW-2	< 2 UJ	< 3 U	--	--	--	< 3 U	--	< 3 U
2,4-Dinitrotoluene	ug/L	0.18	GW-2	< 1 U	< 0.5 U	--	--	--	< 0.5 U	--	< 0.5 U
2,6-Dinitrotoluene	ug/L			< 1 U	< 0.5 U	--	--	--	< 0.5 U	--	< 0.5 U
2-Chloronaphthalene	ug/L	100	GW-2	< 0.01 U	< 0.1 U	--	< 0.013 U	--	< 0.1 U	--	< 0.1 U
2-Chlorophenol	ug/L	17	GW-2	< 0.2 U	< 1 U	--	--	--	< 1 U	--	< 1 U
2-Methylphenol	ug/L	9.8	GW-3	< 0.2 U	< 1 U	--	--	--	< 1 U	--	< 1 U
2-Nitroaniline	ug/L			< 1 U	< 0.5 U	--	--	--	< 0.5 U	--	< 0.5 U
2-Nitrophenol	ug/L			< 1 U	< 1 U	--	--	--	< 1 U	--	< 1 U
3 & 4 Methylphenol	ug/L			--	< 2 U	--	--	--	< 2 U	--	< 2 U
3,3'-Dichlorobenzidine	ug/L	0.0033	GW-2	< 1 U	< 1 U	--	--	--	< 1 U	--	< 1 U
3-Nitroaniline	ug/L			< 1 U	< 10 U	--	--	--	< 10 U	--	< 10 U
4,6-Dinitro-2-methylphenol	ug/L	7	GW-2	< 2 U	< 3 U	--	--	--	< 3 U	--	< 3 U
4-Bromophenyl phenyl ether	ug/L			< 0.2 U	< 0.1 U	--	--	--	< 0.1 U	--	< 0.1 U
4-Chloro-3-methylphenol	ug/L	36	GW-2	< 1 U	< 1 U	--	--	--	< 1 U	--	< 1 U
4-Chloroaniline	ug/L			--	< 10 U	--	--	--	< 10 U	--	< 10 U
4-Chlorophenyl phenyl ether	ug/L			< 0.2 U	< 0.1 U	--	--	--	< 0.1 U	--	< 0.1 U
4-Methylphenol	ug/L	110	GW-3	< 0.2 U	--	--	--	--	--	--	--
4-Nitroaniline	ug/L			< 1 U	< 10 U	--	--	--	< 10 U	--	< 10 U
4-Nitrophenol	ug/L			< 1 U	< 3 U	--	--	--	< 3 U	--	< 3 U
Benzoic acid	ug/L	590	GW-3	< 2 U	< 5 U	--	--	--	< 5 U	--	< 5 U
Benzyl alcohol	ug/L	56	GW-3	< 0.2 U	< 1 U	--	--	--	< 1 U	--	< 1 U
Benzyl butyl phthalate	ug/L	0.013	GW-2	< 0.2 U	< 1 U	--	--	--	< 1 U	--	< 1 U
Bis(2-chloro-1-methylethyl) ether	ug/L	100	GW-2	< 0.2 U	< 0.1 U	--	--	--	< 0.1 U	--	< 0.1 U
Bis(2-chloroethoxy)methane	ug/L			< 0.2 U	< 0.1 U	--	--	--	< 0.1 U	--	< 0.1 U
Bis(2-chloroethyl) ether	ug/L	0.06	GW-2	< 0.2 U	< 0.1 U	--	--	--	< 0.1 U	--	< 0.1 U
Bis(2-ethylhexyl) phthalate	ug/L	0.046	GW-2	< 0.2 U	< 1.6 U	--	--	--	< 1.6 U	--	< 1.6 U
Carbazole	ug/L			< 0.01 U	< 0.1 U	--	< 0.013 U	--	< 0.1 U	--	< 0.1 U
Dibenzofuran	ug/L	3.1	GW-3	< 0.01 U	< 0.1 U	--	< 0.013 U	--	< 0.1 U	--	< 0.1 U
Diethyl phthalate	ug/L	93	GW-3	< 0.2 U	< 1 U	--	--	--	< 1 U	--	< 1 U
Dimethyl phthalate	ug/L	59	GW-3	< 0.2 U	< 1 U	--	--	--	< 1 U	--	< 1 U
Di-n-butyl phthalate	ug/L	8	GW-2	**0.05 J**	< 1 U	--	--	--	< 1 U	--	< 1 U
Di-n-octyl phthalate	ug/L	2.3	GW-3	< 0.2 U	< 1 U	--	--	--	< 1 U	--	< 1 U
Hexachlorobenzene	ug/L	5E-06	GW-2	< 0.0013 U	< 0.1 U	--	< 0.0013 U	--	< 0.1 U	--	< 0.1 U
Hexachlorobutadiene	ug/L	0.01	GW-2	< 0.0013 U	< 0.1 U	--	< 0.0013 U	--	< 0.5 U	--	< 0.5 U
Hexachlorocyclopentadiene	ug/L	1	GW-2	< 1 UJ	< 0.3 U	--	--	--	< 0.3 U	--	< 0.3 U
Hexachloroethane	ug/L	0.02	GW-2	< 0.2 U	< 0.1 U	--	--	--	< 0.1 U	--	< 0.1 U
Isophorone	ug/L	110	GW-2	< 0.2 U	< 0.1 U	--	--	--	< 0.1 U	--	< 0.1 U
Nitrobenzene	ug/L	100	GW-2	< 0.2 U	< 0.1 U	--	--	--	< 0.1 U	--	< 0.1 U
N-Nitrosodimethylamine	ug/L	0.34	GW-2	--	< 0.1 UJ	--	--	--	< 0.1 U	--	< 0.1 U
N-Nitroso-di-n-propylamine	ug/L	0.058	GW-2	< 0.2 U	< 0.1 U	--	--	--	< 0.1 U	--	< 0.1 U
N-Nitrosodiphenylamine	ug/L	0.55	GW-3	< 0.2 U	< 0.1 U	--	--	--	< 0.1 U	--	< 0.1 U
Pentachlorophenol	ug/L	0.002	GW-2	< 1 U	< 0.5 U	--	--	--	< 0.5 U	--	< 0.5 U
Perylene	ug/L			< 0.01 U	--	--	< 0.013 U	--	--	--	--
Phenol	ug/L	100	GW-3	< 0.2 U	< 1 U	--	--	--	< 1 U	--	< 1 U

Table I.3.A. Groundwater Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL.

Location				MW-07			MW-08				MW-08D
Date				03/29/21	10/27/22	03/23/23	03/29/21	05/27/21	10/31/22	03/22/23	10/25/22
Sample				MW-07-210329	MW-07-221027	MW-07-230323	MW-08-210329	MW-08-210527	MW-08-221031	MW-08-230322	MW-08D-221025
Hydrostatigraphic Unit				Fill	Fill	Fill	Fill	Fill	Fill	Fill	Alluvial
Tidal Stage				Lower-Low	Higher-High	Higher-High	Lower-Low	Higher-High	Higher-High	Lower-Low	Higher-High
Tidal Trend				Incoming	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing
Analyte	Unit	Preliminary RI SL	Basis of SL								
Pesticides											
2,4'-DDD	ug/L			< 0.0013 U	--	--	< 0.0013 U	--	--	--	--
2,4'-DDE	ug/L			< 0.0013 U	--	--	< 0.0013 U	--	--	--	--
2,4'-DDT	ug/L			< 0.0013 U	--	--	< 0.0013 U	--	--	--	--
4,4'-DDD	ug/L	7.9E-06	GW-2	< 0.0013 U	< 0.00125 U	--	< 0.0013 U	--	< 0.00125 U	--	< 0.00125 U
4,4'-DDE	ug/L	8.8E-07	GW-2	< 0.0013 U	< 0.00125 U	--	< 0.0013 U	--	< 0.00125 U	--	< 0.00125 U
4,4'-DDT	ug/L	1.2E-06	GW-2	< 0.0013 U	< 0.00125 U	--	< 0.0013 U	--	< 0.00125 U	--	< 0.00125 U
Aldrin	ug/L	4.1E-08	GW-2	< 0.0006 U	< 0.000625 U	--	**0.0027**	--	< 0.000625 U	--	< 0.000625 U
Alpha-BHC	ug/L	4.8E-05	GW-2	< 0.0006 U	< 0.000625 U	--	**0.0027**	--	< 0.000625 U	--	< 0.000625 U
Beta-BHC	ug/L	0.0014	GW-2	< 0.0006 U	< 0.000625 U	--	< 0.0006 U	--	< 0.000625 U	--	< 0.000625 U
Chlordane	ug/L	2.2E-05	GW-2	--	--	--	--	--	--	--	--
cis-Chlordane	ug/L	7.8E-05	GW-3	< 0.0006 U	< 0.000625 U	--	< 0.0006 U	--	< 0.000625 U	--	< 0.000625 U
cis-Nonachlor	ug/L			< 0.0013 U	--	--	< 0.0013 U	--	--	--	--
Delta-BHC	ug/L			< 0.0006 U	< 0.000625 U	--	< 0.0006 U	--	< 0.000625 U	--	< 0.000625 U
Dieldrin	ug/L	7E-08	GW-2	< 0.0013 U	< 0.00125 U	--	< 0.0013 U	--	< 0.00125 U	--	< 0.00125 U
Endosulfan I	ug/L	0.0087	GW-2	< 0.0006 U	< 0.000625 U	--	< 0.0006 U	--	< 0.000625 U	--	< 0.000625 U
Endosulfan II	ug/L	0.0087	GW-2	< 0.0013 U	< 0.00125 U	--	< 0.0013 U	--	< 0.00125 U	--	< 0.00125 U
Endosulfan Sulfate	ug/L	10	GW-2	< 0.0013 UJ	< 0.00125 U	--	< 0.0013 UJ	--	< 0.00125 U	--	< 0.00125 U
Endrin	ug/L	0.002	GW-2	< 0.0013 U	< 0.00125 U	--	< 0.0013 U	--	< 0.00125 U	--	< 0.00125 U
Endrin Aldehyde	ug/L	0.035	GW-2	< 0.0013 UJ	< 0.00125 U	--	< 0.0013 UJ	--	< 0.00125 U	--	< 0.00125 U
Endrin ketone	ug/L			< 0.0013 UJ	< 0.00125 U	--	< 0.0013 UJ	--	< 0.00125 U	--	< 0.00125 U
Heptachlor	ug/L	3.4E-07	GW-2	< 0.0006 U	< 0.000625 U	--	< 0.0006 U	--	< 0.000625 U	--	< 0.000625 U
Heptachlor Epoxide	ug/L	2.4E-06	GW-2	< 0.0006 U	< 0.000625 U	--	< 0.0006 U	--	< 0.000625 U	--	< 0.000625 U
Lindane	ug/L	0.13	GW-2	< 0.0006 U	< 0.000625 U	--	< 0.0006 U	--	< 0.000625 U	--	< 0.000625 U
Methoxychlor	ug/L	0.02	GW-2	< 0.0063 U	< 0.00625 U	--	< 0.0063 U	--	< 0.00625 U	--	< 0.00625 U
Mirex	ug/L	0.001	GW-2	< 0.0013 U	--	--	< 0.0013 U	--	--	--	--
Oxychlordane	ug/L			< 0.0013 U	--	--	< 0.0013 U	--	--	--	--
Toxaphene	ug/L	3.2E-05	GW-2	--	< 0.0625 U	--	--	--	< 0.0625 U	--	< 0.0625 U
trans-Chlordane	ug/L	7.8E-05	GW-3	< 0.0006 U	< 0.000625 U	--	< 0.0006 U	--	< 0.000625 U	--	< 0.000625 U
trans-Nonachlor	ug/L			< 0.0013 U	--	--	< 0.0013 U	--	--	--	--
Total Petroleum Hydrocarbons (TPH)											
Gasoline-Range Organics	ug/L	800	GW-2	< 100 U	< 100 U	--	< 100 U	--	< 100 U	--	< 100 U
Diesel-Range Organics	ug/L	500	GW-2	< 125 U	**55**	--	< 123 U	--	< 50 U	--	< 50 U
Motor Oil-Range Organics	ug/L	500	GW-2	< 250 U	< 250 U	--	< 247 U	--	< 250 U	--	< 250 U
Diesel and Oil Extended-Range Organics	ug/L	500	GW-2	< 250 U	**55**	--	< 247 U	--	< 250 U	--	< 250 U
Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)											
Benzene	ug/L	1.6	GW-2	< 0.2 U	< 0.35 UJ	--	< 0.2 U	--	< 0.35 U	--	< 0.35 U
Toluene	ug/L	100	GW-2	< 0.2 U	< 1 UJ	--	**0.19 J**	--	< 1 U	--	< 1 U
Ethylbenzene	ug/L	21	GW-2	< 0.2 U	< 1 UJ	--	< 0.2 U	--	< 1 U	--	< 1 U
Total Xylenes	ug/L	110	GW-2	< 0.6 U	< 2 UJ	--	< 0.6 U	--	< 2 U	--	< 2 U
Volatile Organic Compounds (VOCs)											
1,1,1,2-Tetrachloroethane	ug/L	7.1	GW-4	< 0.2 U	< 1 UJ	--	< 0.2 U	--	< 1 U	--	< 1 U
1,1,1-Trichloroethane	ug/L	5400	GW-4	< 0.2 U	< 1 UJ	--	< 0.2 U	--	< 1 U	--	< 1 U
1,1,2 - Trichlorotrifluoroethane	ug/L	170	GW-4	< 0.2 U	--	--	< 0.2 U	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/L	0.3	GW-2	< 0.2 U	< 0.2 UJ	--	< 0.2 U	--	< 0.2 U	--	< 0.2 U
1,1,2-Trichloroethane	ug/L	0.9	GW-2	< 0.2 U	< 0.5 UJ	--	< 0.2 U	--	< 0.5 U	--	< 0.5 U
1,1-Dichloroethane	ug/L	11	GW-4	< 0.2 U	< 1 UJ	--	< 0.2 U	--	< 1 U	--	< 1 U
1,1-Dichloroethene	ug/L	130	GW-4	< 0.2 U	< 1 UJ	--	< 0.2 U	--	< 1 U	--	< 1 U
1,1-Dichloropropene	ug/L			< 0.2 U	< 1 UJ	--	< 0.2 U	--	< 1 U	--	< 1 U
1,2,3-Trichlorobenzene	ug/L			< 0.5 U	< 1 UJ	--	< 0.5 U	--	< 1 U	--	< 1 U
1,2,3-Trichloropropane	ug/L	20	GW-4	< 0.5 U	< 1 UJ	--	< 0.5 U	--	< 1 U	--	< 1 U
1,2,4-Trichlorobenzene	ug/L	0.037	GW-2	< 0.2 U	< 1 UJ	--	< 0.5 U	--	< 1 U	--	< 0.1 U
1,2,4-Trimethylbenzene	ug/L	240	GW-4	< 0.2 U	< 1 UJ	--	< 0.2 U	--	< 1 U	--	< 1 U
1,2-Dibromo-3-chloropropane	ug/L	0.042	GW-4	< 0.5 U	< 10 UJ	--	< 0.5 U	--	< 10 U	--	< 10 U
1,2-Dibromoethane (EDB)	ug/L	0.3	GW-4	< 0.2 U	< 1 UJ	--	< 0.2 U	--	< 1 U	--	< 1 U
1,2-Dichlorobenzene	ug/L	4.5	GW-3	< 0.2 U	< 0.1 U	--	< 0.2 U	--	< 1 U	--	< 1 U
1,2-Dichloroethane (EDC)	ug/L	3.5	GW-4	< 0.2 U	< 0.2 UJ	--	< 0.2 U	--	< 0.2 U	--	< 0.2 U
1,2-Dichloropropane	ug/L	3.1	GW-2	< 0.2 U	< 1 UJ	--	< 0.2 U	--	< 1 U	--	< 1 U
1,3,5-Trimethylbenzene	ug/L	170	GW-4	< 0.2 U	< 1 UJ	--	< 0.2 U	--	< 1 U	--	< 1 U
1,3-Dichlorobenzene	ug/L	2	GW-2	< 0.2 U	< 0.1 U	--	< 0.2 U	--	< 1 U	--	< 1 U
1,3-Dichloropropane	ug/L	1.2	GW-2	< 0.2 U	< 1 UJ	--	< 0.2 U	--	< 1 U	--	< 1 U
1,4-Dichloro-2-Butene	ug/L			< 1 U	--	--	< 1 U	--	--	--	--
1,4-Dichlorobenzene	ug/L	5	GW-4	< 0.2 U	< 1 UJ	--	< 0.2 U	--	< 1 U	--	< 0.1 U
2,2-Dichloropropane	ug/L			< 0.2 U	< 1 UJ	--	< 0.2 U	--	< 1 U	--	< 1 U
2-Butanone	ug/L	1700000	GW-4	< 5 U	< 20 UJ	--	< 5 U	--	< 20 U	--	< 20 U
2-Chlorotoluene	ug/L			< 0.2 U	< 1 UJ	--	< 0.2 U	--	< 1 U	--	< 1 U
2-Hexanone	ug/L	7300	GW-4	< 5 U	< 10 UJ	--	< 5 U	--	< 10 U	--	< 10 U
2-Pentanone	ug/L			< 5 U	--	--	< 5 U	--	--	--	--
4-Chlorotoluene	ug/L			< 0.2 U	< 1 UJ	--	< 0.2 U	--	< 1 U	--	< 1 U
4-Methyl-2-pentanone	ug/L	470000	GW-4	< 5 U	< 10 UJ	--	< 5 U	--	< 10 U	--	< 10 U
Acetone	ug/L			< 5 U	< 50 UJ	--	< 5 U	--	< 50 U	--	< 50 U
Acrolein	ug/L	1.1	GW-2	< 5 U	--	--	< 5 U	--	--	--	--
Acrylonitrile	ug/L	0.028	GW-2	< 1 U	--	--	< 1 U	--	--	--	--
Bromobenzene	ug/L	630	GW-4	< 0.2 U	< 1 UJ	--	< 0.2 U	--	< 1 U	--	< 1 U
Bromochloromethane	ug/L			< 0.2 U	--	--	< 0.2 U	--	--	--	--
Bromodichloromethane	ug/L	1.4	GW-4	< 0.2 U	< 0.5 UJ	--	< 0.2 U	--	< 0.5 U	--	< 0.5 U
Bromoform	ug/L	12	GW-2	< 0.2 U	< 5 UJ	--	< 0.2 U	--	< 5 U	--	< 5 U
Bromomethane	ug/L	11	GW-4	< 1 U	< 5 UJ	--	< 1 U	--	< 5 U	--	< 5 U
Carbon Disulfide	ug/L	840	GW-4	< 0.2 U	--	--	< 0.2 U	--	--	--	--
Carbon Tetrachloride	ug/L	0.35	GW-2	< 0.2 U	< 0.5 UJ	--	< 0.2 U	--	< 0.5 U	--	< 0.5 U
Chlorobenzene	ug/L	200	GW-2	< 0.2 U	< 1 UJ	--	< 0.2 U	--	< 1 U	--	< 1 U
Chloroethane	ug/L	15000	GW-4	< 0.2 U	< 1 UJ	--	< 0.2 U	--	< 1 U	--	< 1 U
Chloroform	ug/L	1.2	GW-4	< 0.2 U	< 1 UJ	--	< 0.2 U	--	< 1 U	--	< 1 U
Chloromethane	ug/L	150	GW-4	< 0.5 U	< 10 UJ	--	< 0.5 U	--	< 10 U	--	< 10 U
cis-1,2-Dichloroethene (DCE)	ug/L	180	GW-4	< 0.2 U	< 1 UJ	--	< 0.2 U	--	< 1 U	--	< 1 U
cis-1,3-Dichloropropene	ug/L	1.2	GW-2	< 0.2 U	< 0.4 UJ	--	< 0.2 U	--	< 0.4 U	--	< 0.4 U
Dibromochloromethane	ug/L	2.2	GW-2	< 0.2 U	< 0.5 UJ	--	< 0.2 U	--	< 0.5 U	--	< 0.5 U
Dibromomethane	ug/L	97	GW-4	< 0.2 U	< 1 UJ	--	< 0.2 U	--	< 1 U	--	< 1 U
Dichlorodifluoromethane	ug/L	4.2	GW-4	< 0.2 U	< 1 UJ	--	< 0.2 U	--	< 1 U	--	< 1 U
Isopropylbenzene	ug/L	910	GW-4	< 0.2 U	< 1 UJ	--	< 0.2 U	--	< 1 U	--	< 1 U
m,p-Xylenes	ug/L			< 0.4 U	< 2 UJ	--	< 0.4 U	--	< 2 U	--	< 2 U
Methyl tert-butyl ether (MTBE)	ug/L	860	GW-4	< 0.5 U	< 1 UJ	--	< 0.5 U	--	< 1 U	--	< 1 U
Methylene Chloride	ug/L	100	GW-2	< 1 U	< 5 UJ	--	< 1 U	--	< 5 UJ	--	< 5 U
Methyliodide	ug/L			< 1 U	--	--	< 1 U	--	--	--	--
n-Butylbenzene	ug/L			< 0.2 U	--	--	< 0.2 U	--	--	--	--
n-Hexane	ug/L	7.2	GW-4	--	< 5 UJ	--	--	--	< 5 U	--	< 5 U
n-Propylbenzene	ug/L	2300	GW-4	< 0.2 U	< 1 UJ	--	< 0.2 U	--	< 1 U	--	< 1 U
o-Xylene	ug/L			< 0.2 U	< 1 UJ	--	< 0.2 U	--	< 1 U	--	< 1 U
p-Isopropyltoluene	ug/L	88	GW-4	< 0.2 U	< 1 UJ	--	< 0.2 U	--	< 1 U	--	< 1 U
sec-Butylbenzene	ug/L			< 0.2 U	< 1 UJ	--	< 0.2 U	--	< 1 U	--	< 1 U
Styrene	ug/L	8500	GW-4	< 0.2 U	< 1 UJ	--	< 0.2 U	--	< 1 U	--	< 1 U
tert-Butylbenzene	ug/L			< 0.2 U	< 1 UJ	--	< 0.2 U	--	< 1 U	--	< 1 U
Tetrachloroethene (PCE)	ug/L	2.9	GW-2	< 0.2 U	< 1 UJ	--	**0.2**	--	< 1 U	--	< 1 U
trans-1,2-Dichloroethene	ug/L	77	GW-4	< 0.2 U	< 1 UJ	--	< 0.2 U	--	< 1 U	--	< 1 U
trans-1,3-Dichloropropene	ug/L	1.2	GW-2	< 0.2 U	< 0.4 UJ	--	< 0.2 U	--	< 0.4 U	--	< 0.4 U
Trichloroethene (TCE)	ug/L	0.7	GW-2	< 0.2 U	< 0.5 UJ	--	< 0.2 U	--	< 0.5 U	--	< 0.5 U
Trichlorofluoromethane	ug/L	120	GW-4	< 0.2 U	< 1 UJ	--	< 0.2 U	--	< 1 U	--	< 1 U
Vinyl Acetate	ug/L	8100	GW-4	< 0.2 U	--	--	< 0.2 U	--	--	--	--
Vinyl Chloride	ug/L	0.18	GW-2	< 0.2 U	< 0.02 UJ	--	< 0.2 U	--	< 0.02 U	--	< 0.02 U
Conventionals											
Total Organic Carbon	ug/L			--	--	--	--	--	--	--	--
Total Suspended Solids	mg/L			--	< 5 UJ	< 5 U	--	--	< 5 U	< 5 U	< 5 U
Field Parameters											
Temperature	deg C			**10.6**	**17.1**	**7.14**	**7.7**	**12.4**	**11.5**	**7.8**	**15.3**
Specific Conductance	uS/cm			**1580**	**12100**	**4350**	**2170**	**496**	**11000**	**9620**	**3140**
Dissolved Oxygen	mg/L			**7.53**	**7.4**	**11.6**	**10.3**	**7.38**	**9.27**	**11.7**	**5.46**
pH	pH units			**7.75**	**6.32**	**6.67**	**8**	**7.76**	**7.44**	**7.46**	**7.45**
Oxidation Reduction Potential	mV			**92.4**	**63.8**	**194**	**103**	**70.4**	**63.9**	**192**	**148**
Turbidity	NTU			**143 J**	**6.39**	**2.67**	**2.38**	**8.45**	**1.91**	**1.45**	**0.82**

Table I.3.A. Groundwater Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL.

Location				MW-09			MW-09D		MW-10			
Date				03/29/21	10/31/22	03/22/23	10/24/22	03/22/23	03/30/21	10/31/22	03/22/23	03/24/23
Sample				MW-09-210329	MW-09-221031	MW-09-230322	MW-09D-221024	MW-09D-230322	MW-10-210330	MW-10-221031	MW-10-230322	MW-10-230324
Hydrostatigraphic Unit				Fill	Fill	Fill	Alluvial	Alluvial	Fill	Fill	Fill	Fill
Tidal Stage				Lower-Low	Higher-High	Higher-High	Higher-High	Lower-Low	Higher-High	Higher-High	Higher-Low	Higher-High
Tidal Trend				Outgoing	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing	Incoming	Outgoing
Analyte	Unit	Preliminary RI SL	Basis of SL									
Metals, Total												
Arsenic	ug/L	8	GW-5	--	--	**4.16**	**3.48**	**1.8**	--	--	**7.43**	**7.64**
Barium	ug/L	200	GW-2	--	--	--	--	--	--	--	--	--
Cadmium	ug/L	1.2	GW-3	--	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	--	< 1 U	< 0.2 U	< 0.2 UJ
Chromium	ug/L	27	GW-2	--	**3.76 J**	**1.6**	**0.826**	< 0.5 U	--	**91.5**	**5760**	**4.39 J**
Copper	ug/L	3.1	GW-2	--	**11.1**	**2.41**	**4.89**	**2.24**	--	**12.3**	**18.8**	**3.32 J**
Lead	ug/L	8.1	GW-2	--	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	--	< 1 U	**3.98**	< 0.2 U
Mercury	ug/L	0.025	GW-2	--	**0.0012 J**	--	**0.0023**	--	--	**0.0012 J**	--	--
Nickel	ug/L	8.2	GW-2	--	**5.29**	**2.85**	**2.86**	**1.31**	--	**207**	**38.2**	**10.1**
Selenium	ug/L	71	GW-2	--	--	--	--	--	--	--	--	--
Silver	ug/L	0.91	GW-2	--	--	--	--	--	--	--	--	--
Zinc	ug/L	81	GW-2	--	**10.4**	**1.16**	**1.04**	< 0.68 U	--	**9.13**	**10.7**	**2.12**
Metals, Dissolved												
Arsenic	ug/L	8	GW-5	--	**14.7**	**3.42**	**3.46**	**1.46**	--	**22.4**	**5.85**	**6.11**
Cadmium	ug/L	1.2	GW-3	--	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	--	< 1 U	< 0.2 U	< 0.2 UJ
Chromium	ug/L	27	GW-2	--	**3.25**	**1.01**	**1.08**	< 0.5 U	--	**28.6**	**15.7**	< 2 U
Copper	ug/L	3.1	GW-2	--	**6.11**	**1.4**	**4.52**	**1.81**	--	**35.5**	**4.36**	**2.42**
Lead	ug/L	8.1	GW-2	--	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	--	< 1 U	< 0.2 U	< 0.2 U
Mercury	ug/L	0.025	GW-2	--	**0.00084**	--	**0.0019**	--	--	**0.001**	--	--
Nickel	ug/L	8.2	GW-2	--	**4.99**	**2.59**	**2.82**	**1.13**	--	**206**	**11.9**	**9.25**
Silver	ug/L	0.91	GW-2	--	--	--	--	--	--	--	--	--
Zinc	ug/L	81	GW-2	--	**8.65**	**0.795**	**1.43**	< 0.68 U	--	**8.77**	**1.89**	**2.89**
Metals, Total, Prepared Using Reductive Precipitation												
Arsenic	ug/L	8	GW-5	--	--	< 0.50 U	--	< 0.50 U	--	--	**1.03**	< 0.50 U
Cadmium	ug/L	1.2	GW-3	--	--	< 0.020 U	--	< 0.020 U	--	--	< 0.020 U	**0.025**
Chromium	ug/L	27	GW-2	--	--	**0.87**	--	< 0.20 U	--	--	**1370**	< 0.20 U
Copper	ug/L	3.1	GW-2	--	--	**1.44**	--	**1.93**	--	--	**6.05**	< 0.10 U
Lead	ug/L	8.1	GW-2	--	--	< 0.050 U	--	< 0.050 U	--	--	**1.44**	< 0.050 U
Nickel	ug/L	8.2	GW-2	--	--	**2.75**	--	**1.27**	--	--	**21.2**	**9.86**
Zinc	ug/L	81	GW-2	--	--	**0.87**	--	< 0.50 U	--	--	**2.83**	**0.70**
Metals, Dissolved, Prepared Using Reductive Precipitation												
Arsenic	ug/L	8	GW-5	--	--	< 0.50 U	--	< 0.50 U	--	--	< 0.50 U	< 0.50 U
Cadmium	ug/L	1.2	GW-3	--	--	< 0.020 U	--	< 0.020 U	--	--	< 0.020 U	**0.023**
Chromium	ug/L	27	GW-2	--	--	**0.39**	--	< 0.20 U	--	--	**0.87**	**0.36**
Copper	ug/L	3.1	GW-2	--	--	**1.26**	--	**1.94**	--	--	**0.99**	**0.97**
Lead	ug/L	8.1	GW-2	--	--	< 0.050 U	--	< 0.050 U	--	--	< 0.050 U	< 0.050 U
Nickel	ug/L	8.2	GW-2	--	--	**2.49**	--	**1.19**	--	--	**9.30**	**10.1**
Zinc	ug/L	81	GW-2	--	--	**1.01**	--	< 0.50 U	--	--	< 0.50 U	**0.70**
Butyl Tins												
Dibutyltin Ion	ug/L			--	< 0.0077 U	--	< 0.0077 U	--	--	< 0.0077 U	--	--
Monobutyltin	ug/L			--	**0.0293**	--	**0.104**	--	--	**0.029**	--	--
Tetrabutyltin	ug/L			--	< 0.03 U	--	< 0.03 U	--	--	< 0.03 U	--	--
Tributyltin Ion	ug/L	4.3E-06	GW-3	--	< 0.0052 U	--	< 0.0052 U	--	--	< 0.0052 U	--	--
Polychlorinated Biphenyl (PCB) Aroclors												
Total PCB Aroclors (ND = 0)	ug/L	7.0E-06	GW-2	--	< 0.0035 U	--	< 0.0035 U	--	--	< 0.0035 U	--	--
Polychlorinated Biphenyl (PCB) Congeners												
Total PCB Congeners (ND = 0)	ug/L	7.0E-06	GW-2	--	--	--	--	--	--	--	--	--
Total PCB TEQ (ND = 0)	ug/L	4.4E-09	GW-2	--	--	--	--	--	--	--	--	--
Dioxins/Furans												
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	ug/L	5.1E-09	GW-2	--	--	--	--	--	--	--	--	--
2,3,7,8-TCDD	ug/L	5.1E-09	GW-2	--	--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)												
1-Methylnaphthalene	ug/L	0.17	GW-4	--	< 0.1 U	--	< 0.1 U	--	--	< 0.1 U	--	--
2-Methylnaphthalene	ug/L	14	GW-3	--	< 0.1 U	--	< 0.1 U	--	--	< 0.1 U	--	--
Acenaphthene	ug/L	5.3	GW-3	--	< 0.01 U	--	< 0.01 U	--	--	< 0.01 U	--	--
Acenaphthylene	ug/L			--	< 0.01 U	--	< 0.01 U	--	--	< 0.01 U	--	--
Anthracene	ug/L	2.1	GW-3	--	< 0.01 U	--	< 0.01 U	--	--	< 0.01 U	--	--
Benzo(g,h,i)perylene	ug/L			--	< 0.02 U	--	< 0.02 U	--	--	< 0.02 U	--	--
Fluoranthene	ug/L	1.8	GW-3	--	< 0.01 U	--	< 0.01 U	--	--	< 0.01 U	--	--
Fluorene	ug/L	3.7	GW-3	--	< 0.01 U	--	< 0.01 U	--	--	< 0.01 U	--	--
Naphthalene	ug/L	1.4	GW-2	< 0.5 U	< 1 U	< 1 U	< 0.1 U	< 10 U	< 0.5 U	< 0.1 U	--	--
Phenanthrene	ug/L			--	< 0.01 U	--	< 0.01 U	--	--	< 0.01 U	--	--
Pyrene	ug/L	2	GW-3	--	< 0.01 U	--	< 0.01 U	--	--	< 0.01 U	--	--
Benz(a)anthracene	ug/L	0.00016	GW-2	--	< 0.01 U	--	< 0.01 U	--	--	< 0.01 U	--	--
Benzo(a)pyrene	ug/L	1.6E-05	GW-2	--	< 0.01 U	--	< 0.01 U	--	--	< 0.01 U	--	--
Benzo(b)fluoranthene	ug/L	0.00016	GW-2	--	< 0.01 U	--	< 0.01 U	--	--	< 0.01 U	--	--
Benzo(j)fluoranthene	ug/L			--	--	--	--	--	--	--	--	--
Benzo(j,k)fluoranthene	ug/L			--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	ug/L	0.0013	GW-2	--	< 0.01 U	--	< 0.01 U	--	--	< 0.01 U	--	--
Chrysene	ug/L	0.016	GW-2	--	< 0.01 U	--	< 0.01 U	--	--	< 0.01 U	--	--
Dibenzo(a,h)anthracene	ug/L	1.6E-05	GW-2	--	< 0.01 U	--	< 0.01 U	--	--	< 0.01 U	--	--
Indeno(1,2,3-cd)pyrene	ug/L	0.00016	GW-2	--	< 0.01 U	--	< 0.01 U	--	--	< 0.01 U	--	--
Total Benzofluoranthenes	ug/L			--	< 0.01 U	--	< 0.01 U	--	--	< 0.01 U	--	--
Total HPAHs (ND = 1/2 RDL)	ug/L			--	< 0.02 U	--	< 0.02 U	--	--	< 0.02 U	--	--
Total LPAHs (ND = 1/2 RDL)	ug/L			--	< 1 U	--	< 0.1 U	--	--	< 0.1 U	--	--
Total cPAHs TEQ (ND = 1/2 RDL)	ug/L	1.6E-05	GW-2	--	< 0.00755 U	--	< 0.00755 U	--	--	< 0.00755 U	--	--
Semivolatile Organic Compounds (SVOCs)												
1,2-Diphenylhydrazine	ug/L	0.02	GW-2	--	< 0.1 U	--	< 0.1 U	--	--	< 0.1 U	--	--
2,4,5-Trichlorophenol	ug/L	600	GW-2	--	< 1 U	--	< 1 U	--	--	< 1 U	--	--
2,4,6-Trichlorophenol	ug/L	0.28	GW-2	--	< 1 U	--	< 1 U	--	--	< 1 U	--	--
2,4-Dichlorophenol	ug/L	10	GW-2	--	< 1 U	--	< 1 U	--	--	< 1 U	--	--
2,4-Dimethylphenol	ug/L	2.9	GW-3	--	< 1 U	--	< 1 U	--	--	< 1 U	--	--
2,4-Dinitrophenol	ug/L	100	GW-2	--	< 3 U	--	< 3 U	--	--	< 3 U	--	--
2,4-Dinitrotoluene	ug/L	0.18	GW-2	--	< 0.5 U	--	< 0.5 U	--	--	< 0.5 U	--	--
2,6-Dinitrotoluene	ug/L			--	< 0.5 U	--	< 0.5 U	--	--	< 0.5 U	--	--
2-Chloronaphthalene	ug/L	100	GW-2	--	< 0.1 U	--	< 0.1 U	--	--	< 0.1 U	--	--
2-Chlorophenol	ug/L	17	GW-2	--	< 1 U	--	< 1 U	--	--	< 1 U	--	--
2-Methylphenol	ug/L	9.8	GW-3	--	< 1 U	--	< 1 U	--	--	< 1 U	--	--
2-Nitroaniline	ug/L			--	< 0.5 U	--	< 0.5 U	--	--	< 0.5 U	--	--
2-Nitrophenol	ug/L			--	< 1 U	--	< 1 U	--	--	< 1 U	--	--
3 & 4 Methylphenol	ug/L			--	< 2 U	--	< 2 U	--	--	< 2 U	--	--
3,3'-Dichlorobenzidine	ug/L	0.0033	GW-2	--	< 1 U	--	< 1 U	--	--	< 1 U	--	--
3-Nitroaniline	ug/L			--	< 10 U	--	< 10 U	--	--	< 10 U	--	--
4,6-Dinitro-2-methylphenol	ug/L	7	GW-2	--	< 3 U	--	< 3 U	--	--	< 3 U	--	--
4-Bromophenyl phenyl ether	ug/L			--	< 0.1 U	--	< 0.1 U	--	--	< 0.1 U	--	--
4-Chloro-3-methylphenol	ug/L	36	GW-2	--	< 1 U	--	< 1 U	--	--	< 1 U	--	--
4-Chloroaniline	ug/L			--	< 10 U	--	< 10 U	--	--	< 10 U	--	--
4-Chlorophenyl phenyl ether	ug/L			--	< 0.1 U	--	< 0.1 U	--	--	< 0.1 U	--	--
4-Methylphenol	ug/L	110	GW-3	--	--	--	--	--	--	--	--	--
4-Nitroaniline	ug/L			--	< 10 U	--	< 10 U	--	--	< 10 U	--	--
4-Nitrophenol	ug/L			--	< 3 U	--	< 3 U	--	--	< 3 U	--	--
Benzoic acid	ug/L	590	GW-3	--	< 5 U	--	< 5 U	--	--	< 5 U	--	--
Benzyl alcohol	ug/L	56	GW-3	--	< 1 U	--	< 1 U	--	--	< 1 U	--	--
Benzyl butyl phthalate	ug/L	0.013	GW-2	--	< 1 U	--	< 1 U	--	--	< 1 U	--	--
Bis(2-chloro-1-methylethyl) ether	ug/L	100	GW-2	--	< 0.1 U	--	< 0.1 U	--	--	< 0.1 U	--	--
Bis(2-chloroethoxy)methane	ug/L			--	< 0.1 U	--	< 0.1 U	--	--	< 0.1 U	--	--
Bis(2-chloroethyl) ether	ug/L	0.06	GW-2	--	< 0.1 U	--	< 0.1 U	--	--	< 0.1 U	--	--
Bis(2-ethylhexyl) phthalate	ug/L	0.046	GW-2	--	< 1.6 U	--	< 1.6 U	--	--	< 1.6 U	--	--
Carbazole	ug/L			--	< 0.1 U	--	< 0.1 U	--	--	< 0.1 U	--	--
Dibenzofuran	ug/L	3.1	GW-3	--	< 0.1 U	--	< 0.1 U	--	--	< 0.1 U	--	--
Diethyl phthalate	ug/L	93	GW-3	--	< 1 U	--	< 1 U	--	--	< 1 U	--	--
Dimethyl phthalate	ug/L	59	GW-3	--	< 1 U	--	< 1 U	--	--	< 1 U	--	--
Di-n-butyl phthalate	ug/L	8	GW-2	--	< 1 U	--	< 1 U	--	--	< 1 U	--	--
Di-n-octyl phthalate	ug/L	2.3	GW-3	--	< 1 U	--	< 1 U	--	--	< 1 U	--	--
Hexachlorobenzene	ug/L	5E-06	GW-2	--	< 0.1 U	--	< 0.1 U	--	--	< 0.1 U	--	--
Hexachlorobutadiene	ug/L	0.01	GW-2	< 0.5 U	< 0.5 U	< 0.5 U	< 0.1 U	< 5 U	< 0.5 U	< 0.1 U	--	--
Hexachlorocyclopentadiene	ug/L	1	GW-2	--	< 0.3 U	--	< 0.3 U	--	--	< 0.3 U	--	--
Hexachloroethane	ug/L	0.02	GW-2	--	< 0.1 U	--	< 0.1 U	--	--	< 0.1 U	--	--
Isophorone	ug/L	110	GW-2	--	< 0.1 U	--	< 0.1 U	--	--	< 0.1 U	--	--
Nitrobenzene	ug/L	100	GW-2	--	< 0.1 U	--	< 0.1 U	--	--	< 0.1 U	--	--
N-Nitrosodimethylamine	ug/L	0.34	GW-2	--	< 0.1 U	--	< 0.1 U	--	--	< 0.1 U	--	--
N-Nitroso-di-n-propylamine	ug/L	0.058	GW-2	--	< 0.1 U	--	< 0.1 U	--	--	< 0.1 U	--	--
N-Nitrosodiphenylamine	ug/L	0.55	GW-3	--	< 0.1 U	--	< 0.1 U	--	--	< 0.1 U	--	--
Pentachlorophenol	ug/L	0.002	GW-2	--	< 0.5 U	--	< 0.5 U	--	--	< 0.5 U	--	--
Perylene	ug/L			--	--	--	--	--	--	--	--	--
Phenol	ug/L	100	GW-3	--	< 1 U	--	< 1 U	--	--	< 1 U	--	--

Table I.3.A. Groundwater Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL.

Location				MW-09			MW-09D		MW-10			
Date				03/29/21	10/31/22	03/22/23	10/24/22	03/22/23	03/30/21	10/31/22	03/22/23	03/24/23
Sample				MW-09-210329	MW-09-221031	MW-09-230322	MW-09D-221024	MW-09D-230322	MW-10-210330	MW-10-221031	MW-10-230322	MW-10-230324
Hydrostatigraphic Unit				Fill	Fill	Fill	Alluvial	Alluvial	Fill	Fill	Fill	Fill
Tidal Stage				Lower-Low	Higher-High	Higher-High	Higher-High	Lower-Low	Higher-High	Higher-High	Higher-Low	Higher-High
Tidal Trend				Outgoing	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing	Incoming	Outgoing
Analyte	Unit	Preliminary RI SL	Basis of SL									
Pesticides												
2,4'-DDD	ug/L			--	--	--	--	--	--	--	--	--
2,4'-DDE	ug/L			--	--	--	--	--	--	--	--	--
2,4'-DDT	ug/L			--	--	--	--	--	--	--	--	--
4,4'-DDD	ug/L	7.9E-06	GW-2	--	< 0.00125 U	--	< 0.00125 U	--	--	< 0.00125 U	--	--
4,4'-DDE	ug/L	8.8E-07	GW-2	--	< 0.00125 U	--	< 0.00125 U	--	--	< 0.00125 U	--	--
4,4'-DDT	ug/L	1.2E-06	GW-2	--	< 0.00125 U	--	< 0.00125 U	--	--	< 0.00125 U	--	--
Aldrin	ug/L	4.1E-08	GW-2	--	< 0.000625 U	--	< 0.000625 U	--	--	< 0.000625 U	--	--
Alpha-BHC	ug/L	4.8E-05	GW-2	--	< 0.000625 U	--	< 0.000625 U	--	--	< 0.000625 U	--	--
Beta-BHC	ug/L	0.0014	GW-2	--	< 0.000625 U	--	< 0.000625 U	--	--	< 0.000625 U	--	--
Chlordane	ug/L	2.2E-05	GW-2	--	--	--	--	--	--	--	--	--
cis-Chlordane	ug/L	7.8E-05	GW-3	--	< 0.000625 U	--	< 0.000625 U	--	--	< 0.000625 U	--	--
cis-Nonachlor	ug/L			--	--	--	--	--	--	--	--	--
Delta-BHC	ug/L			--	< 0.000625 U	--	< 0.000625 U	--	--	< 0.000625 U	--	--
Dieldrin	ug/L	7E-08	GW-2	--	< 0.00125 U	--	< 0.00125 U	--	--	< 0.00125 U	--	--
Endosulfan I	ug/L	0.0087	GW-2	--	< 0.000625 U	--	< 0.000625 U	--	--	< 0.000625 U	--	--
Endosulfan II	ug/L	0.0087	GW-2	--	< 0.00125 U	--	< 0.00125 U	--	--	< 0.00125 U	--	--
Endosulfan Sulfate	ug/L	10	GW-2	--	< 0.00125 U	--	< 0.00125 U	--	--	< 0.00125 U	--	--
Endrin	ug/L	0.002	GW-2	--	< 0.00125 U	--	< 0.00125 U	--	--	< 0.00125 U	--	--
Endrin Aldehyde	ug/L	0.035	GW-2	--	< 0.00125 U	--	< 0.00125 U	--	--	< 0.00125 U	--	--
Endrin ketone	ug/L			--	< 0.00125 U	--	< 0.00125 U	--	--	< 0.00125 U	--	--
Heptachlor	ug/L	3.4E-07	GW-2	--	< 0.000625 U	--	< 0.000625 U	--	--	< 0.000625 U	--	--
Heptachlor Epoxide	ug/L	2.4E-06	GW-2	--	< 0.000625 U	--	< 0.000625 U	--	--	< 0.000625 U	--	--
Lindane	ug/L	0.13	GW-2	--	< 0.000625 U	--	< 0.000625 U	--	--	< 0.000625 U	--	--
Methoxychlor	ug/L	0.02	GW-2	--	< 0.00625 U	--	< 0.00625 U	--	--	< 0.00625 U	--	--
Mirex	ug/L	0.001	GW-2	--	--	--	--	--	--	--	--	--
Oxychlordane	ug/L			--	--	--	--	--	--	--	--	--
Toxaphene	ug/L	3.2E-05	GW-2	--	< 0.0625 U	--	< 0.0625 U	--	--	< 0.0625 U	--	--
trans-Chlordane	ug/L	7.8E-05	GW-3	--	< 0.000625 U	--	< 0.000625 U	--	--	< 0.000625 U	--	--
trans-Nonachlor	ug/L			--	--	--	--	--	--	--	--	--
Total Petroleum Hydrocarbons (TPH)												
Gasoline-Range Organics	ug/L	800	GW-2	**101**	< 100 U	--	**290**	--	< 100 U	< 100 U	--	--
Diesel-Range Organics	ug/L	500	GW-2	--	**60**	--	< 50 U	--	--	< 50 U	--	--
Motor Oil-Range Organics	ug/L	500	GW-2	--	< 250 U	--	< 250 U	--	--	< 250 U	--	--
Diesel and Oil Extended-Range Organics	ug/L	500	GW-2	--	**60**	--	< 250 U	--	--	< 250 U	--	--
Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)												
Benzene	ug/L	1.6	GW-2	< 0.2 U	< 0.35 U	< 0.35 U	< 0.35 U	< 3.5 U	< 0.2 U	< 0.35 U	--	--
Toluene	ug/L	100	GW-2	**0.12 J**	< 1 U	< 1 U	< 1 U	< 10 U	< 0.2 U	< 1 U	--	--
Ethylbenzene	ug/L	21	GW-2	< 0.2 U	< 1 U	< 1 U	< 1 U	< 10 U	< 0.2 U	< 1 U	--	--
Total Xylenes	ug/L	110	GW-2	< 0.6 U	< 2 U	< 2 U	< 2 U	< 20 U	< 0.6 U	< 2 U	--	--
Volatile Organic Compounds (VOCs)												
1,1,1,2-Tetrachloroethane	ug/L	7.1	GW-4	< 0.2 U	< 1 U	< 1 U	< 1 U	< 10 U	< 0.2 U	< 1 U	--	--
1,1,1-Trichloroethane	ug/L	5400	GW-4	< 0.2 U	< 1 U	< 1 U	< 1 U	< 10 U	< 0.2 U	< 1 U	--	--
1,1,2 - Trichlorotrifluoroethane	ug/L	170	GW-4	< 0.2 U	--	--	--	--	< 0.2 U	--	--	--
1,1,2,2-Tetrachloroethane	ug/L	0.3	GW-2	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 2 U	< 0.2 U	< 0.2 U	--	--
1,1,2-Trichloroethane	ug/L	0.9	GW-2	< 0.2 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5 U	< 0.2 U	< 0.5 U	--	--
1,1-Dichloroethane	ug/L	11	GW-4	< 0.2 U	< 1 U	< 1 U	< 1 U	< 10 U	< 0.2 U	< 1 U	--	--
1,1-Dichloroethene	ug/L	130	GW-4	< 0.2 U	< 1 U	< 1 U	< 1 U	< 10 U	< 0.2 U	< 1 U	--	--
1,1-Dichloropropene	ug/L			< 0.2 U	< 1 U	< 1 U	< 1 U	< 10 U	< 0.2 U	< 1 U	--	--
1,2,3-Trichlorobenzene	ug/L			< 0.5 U	< 1 U	< 1 U	< 1 U	< 10 U	< 0.5 U	< 1 U	--	--
1,2,3-Trichloropropane	ug/L	20	GW-4	< 0.5 U	< 1 U	< 1 U	< 1 U	< 10 U	< 0.5 U	< 1 U	--	--
1,2,4-Trichlorobenzene	ug/L	0.037	GW-2	< 0.5 U	< 0.1 U	< 1 U	< 0.1 U	< 10 U	< 0.5 U	< 1 U	--	--
1,2,4-Trimethylbenzene	ug/L	240	GW-4	< 0.2 U	< 1 U	< 1 U	< 1 U	< 10 U	< 0.2 U	< 1 U	--	--
1,2-Dibromo-3-chloropropane	ug/L	0.042	GW-4	< 0.5 U	< 10 U	< 10 U	< 10 U	< 100 U	< 0.5 U	< 10 U	--	--
1,2-Dibromoethane (EDB)	ug/L	0.3	GW-4	< 0.2 U	< 1 U	< 1 U	< 1 U	< 10 U	< 0.2 U	< 1 U	--	--
1,2-Dichlorobenzene	ug/L	4.5	GW-3	< 0.2 U	< 1 U	< 1 U	< 0.1 U	< 10 U	< 0.2 U	< 0.1 U	--	--
1,2-Dichloroethane (EDC)	ug/L	3.5	GW-4	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 2 U	< 0.2 U	< 0.2 U	--	--
1,2-Dichloropropane	ug/L	3.1	GW-2	< 0.2 U	< 1 U	< 1 U	< 1 U	< 10 U	< 0.2 U	< 1 U	--	--
1,3,5-Trimethylbenzene	ug/L	170	GW-4	< 0.2 U	< 1 U	< 1 U	< 1 U	< 10 U	< 0.2 U	< 1 U	--	--
1,3-Dichlorobenzene	ug/L	2	GW-2	< 0.2 U	**0.23**	< 1 U	< 0.1 U	< 10 U	< 0.2 U	< 0.1 U	--	--
1,3-Dichloropropane	ug/L	1.2	GW-2	< 0.2 U	< 1 U	< 1 U	< 1 U	< 10 U	< 0.2 U	< 1 U	--	--
1,4-Dichloro-2-Butene	ug/L			< 1 U	--	--	--	--	< 1 U	--	--	--
1,4-Dichlorobenzene	ug/L	5	GW-4	< 0.2 U	< 1 U	< 1 U	< 0.1 U	< 10 U	< 0.2 U	< 1 U	--	--
2,2-Dichloropropane	ug/L			< 0.2 U	< 1 U	< 1 U	< 1 U	< 10 U	< 0.2 U	< 1 U	--	--
2-Butanone	ug/L	1700000	GW-4	< 5 U	< 20 U	< 20 U	< 20 U	< 200 U	< 5 U	< 20 U	--	--
2-Chlorotoluene	ug/L			< 0.2 U	< 1 U	< 1 U	< 1 U	< 10 U	< 0.2 U	< 1 U	--	--
2-Hexanone	ug/L	7300	GW-4	< 5 U	< 10 U	< 10 U	< 10 U	< 100 U	< 5 U	< 10 U	--	--
2-Pentanone	ug/L			< 5 U	--	--	--	--	< 5 U	--	--	--
4-Chlorotoluene	ug/L			< 0.2 U	< 1 U	< 1 U	< 1 U	< 10 U	< 0.2 U	< 1 U	--	--
4-Methyl-2-pentanone	ug/L	470000	GW-4	< 5 U	< 10 U	< 10 U	< 10 U	< 100 U	< 5 U	< 10 U	--	--
Acetone	ug/L			**6.99**	< 50 U	< 50 U	< 50 U	< 500 U	< 5 U	< 50 U	--	--
Acrolein	ug/L	1.1	GW-2	< 5 U	--	--	--	--	< 5 U	--	--	--
Acrylonitrile	ug/L	0.028	GW-2	< 1 U	--	--	--	--	< 1 U	--	--	--
Bromobenzene	ug/L	630	GW-4	< 0.2 U	< 1 U	< 1 U	< 1 U	< 10 U	< 0.2 U	< 1 U	--	--
Bromochloromethane	ug/L			< 0.2 U	--	--	--	--	< 0.2 U	--	--	--
Bromodichloromethane	ug/L	1.4	GW-4	< 0.2 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5 U	< 0.2 U	< 0.5 U	--	--
Bromoform	ug/L	12	GW-2	< 0.2 U	< 5 U	< 5 U	< 5 U	< 50 U	< 0.2 U	< 5 U	--	--
Bromomethane	ug/L	11	GW-4	< 1 U	< 5 U	< 5 U	< 5 U	< 50 U	< 1 U	< 5 U	--	--
Carbon Disulfide	ug/L	840	GW-4	< 0.2 U	--	--	--	--	< 0.2 U	--	--	--
Carbon Tetrachloride	ug/L	0.35	GW-2	< 0.2 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5 U	< 0.2 U	< 0.5 U	--	--
Chlorobenzene	ug/L	200	GW-2	< 0.2 U	< 1 U	< 1 U	< 1 U	< 10 U	< 0.2 U	< 1 U	--	--
Chloroethane	ug/L	15000	GW-4	< 0.2 U	< 1 U	< 1 U	< 1 U	< 10 U	< 0.2 U	< 1 U	--	--
Chloroform	ug/L	1.2	GW-4	< 0.2 U	< 1 U	< 1 U	< 1 U	< 10 U	< 0.2 U	< 1 U	--	--
Chloromethane	ug/L	150	GW-4	< 0.5 U	< 10 U	< 10 U	< 10 U	< 100 U	< 0.5 U	< 10 U	--	--
cis-1,2-Dichloroethene (DCE)	ug/L	180	GW-4	**8.12**	< 1 U	**1.6**	**110**	**65**	< 0.2 U	< 1 U	--	--
cis-1,3-Dichloropropene	ug/L	1.2	GW-2	< 0.2 U	< 0.4 U	< 0.4 U	< 0.4 U	< 4 U	< 0.2 U	< 0.4 U	--	--
Dibromochloromethane	ug/L	2.2	GW-2	< 0.2 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5 U	< 0.2 U	< 0.5 U	--	--
Dibromomethane	ug/L	97	GW-4	< 0.2 U	< 1 U	< 1 U	< 1 U	< 10 U	< 0.2 U	< 1 U	--	--
Dichlorodifluoromethane	ug/L	4.2	GW-4	< 0.2 U	< 1 U	< 1 U	< 1 U	< 10 U	< 0.2 U	< 1 U	--	--
Isopropylbenzene	ug/L	910	GW-4	< 0.2 U	< 1 U	< 1 U	< 1 U	< 10 U	< 0.2 U	< 1 U	--	--
m,p-Xylenes	ug/L			< 0.4 U	< 2 U	< 2 U	< 2 U	< 20 U	< 0.4 U	< 2 U	--	--
Methyl tert-butyl ether (MTBE)	ug/L	860	GW-4	< 0.5 U	< 1 U	< 1 U	< 1 U	< 10 U	< 0.5 U	< 1 U	--	--
Methylene Chloride	ug/L	100	GW-2	< 1 U	< 5 U	< 5 U	**5.8 J**	< 50 U	< 1 U	< 5 U	--	--
Methyliodide	ug/L			< 1 U	--	--	--	--	< 1 U	--	--	--
n-Butylbenzene	ug/L			< 0.2 U	--	--	--	--	< 0.2 U	--	--	--
n-Hexane	ug/L	7.2	GW-4	--	< 5 U	< 5 U	< 5 U	< 50 U	--	< 5 U	--	--
n-Propylbenzene	ug/L	2300	GW-4	< 0.2 U	< 1 U	< 1 U	< 1 U	< 10 U	< 0.2 U	< 1 U	--	--
o-Xylene	ug/L			< 0.2 U	< 1 U	< 1 U	< 1 U	< 10 U	< 0.2 U	< 1 U	--	--
p-Isopropyltoluene	ug/L	88	GW-4	< 0.2 U	< 1 U	< 1 U	< 1 U	< 10 U	< 0.2 U	< 1 U	--	--
sec-Butylbenzene	ug/L			< 0.2 U	< 1 U	< 1 U	< 1 U	< 10 U	< 0.2 U	< 1 U	--	--
Styrene	ug/L	8500	GW-4	< 0.2 U	< 1 U	< 1 U	< 1 U	< 10 U	< 0.2 U	< 1 U	--	--
tert-Butylbenzene	ug/L			< 0.2 U	< 1 U	< 1 U	< 1 U	< 10 U	< 0.2 U	< 1 U	--	--
Tetrachloroethene (PCE)	ug/L	2.9	GW-2	**28.1**	**12**	**21**	**420**	**190**	**0.09 J**	< 1 U	--	--
trans-1,2-Dichloroethene	ug/L	77	GW-4	< 0.2 U	< 1 U	< 1 U	< 1 U	< 10 U	< 0.2 U	< 1 U	--	--
trans-1,3-Dichloropropene	ug/L	1.2	GW-2	< 0.2 U	< 0.4 U	< 0.4 U	< 0.4 U	< 4 U	< 0.2 U	< 0.4 U	--	--
Trichloroethene (TCE)	ug/L	0.7	GW-2	**15.2**	**2.7**	**5.7**	**120**	**70**	< 0.2 U	< 0.5 U	--	--
Trichlorofluoromethane	ug/L	120	GW-4	< 0.2 U	< 1 U	< 1 U	< 1 U	< 10 U	< 0.2 U	< 1 U	--	--
Vinyl Acetate	ug/L	8100	GW-4	< 0.2 U	--	--	--	--	< 0.2 U	--	--	--
Vinyl Chloride	ug/L	0.18	GW-2	< 0.2 U	< 0.02 U	< 0.02 U	**0.048**	< 0.2 U	< 0.2 U	< 0.02 U	--	--
Conventionals												
Total Organic Carbon	ug/L			--	--	--	--	--	--	--	--	--
Total Suspended Solids	mg/L			--	< 5 U	**15**	< 5 U	< 5 U	--	**46**	**8**	**7.6**
Field Parameters												
Temperature	deg C			**7.2**	--	**7.72**	**14.8**	**12.6**	**6.9**	--	**12.2**	**6.63**
Specific Conductance	uS/cm			**1180**	--	**2810**	**2480**	**902**	**1640**	**16800**	**3520**	**6190**
Dissolved Oxygen	mg/L			**8.73**	--	**11.6**	**0.75**	**3.88**	**10.5**	**9.22**	**10.5**	**12**
pH	pH units			**7.59**	--	**7.08**	**6.46**	**6.34**	**7.54**	**6.85**	**7.05**	**7.2**
Oxidation Reduction Potential	mV			**119**	--	**205**	**130**	**175**	**123**	**112**	**224**	**220**
Turbidity	NTU			**56.4**	**28**	**5.79**	**0.08**	**1.88**	**93.6**	**3.58**	**66.7**	**3.83**

Table I.3.A. Groundwater Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL.

Location				MW-11			MW-11D	MW-12		MW-13			
Date				03/30/21	10/27/22	03/23/23	10/25/22	03/30/21	10/27/22	03/31/21	05/27/21	10/26/22	03/24/23
Sample				MW-11-210330	MW-11-221027	MW-11-230323	MW-11D-221024	MW-12-210330	MW-12-221027	MW-13-210331	MW-13-210527	MW-13-221026	MW-13-230324
Hydrostatigraphic Unit				Fill	Fill	Fill	Alluvial	Fill	Fill	Fill	Fill	Fill	Fill
Tidal Stage				Higher-High	Higher-High	Higher-High	Higher-High	Lower-Low	Higher-High	Lower-Low	Lower-Low	Higher-High	Lower-Low
Tidal Trend				Outgoing	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing
Analyte	Unit	Preliminary RI SL	Basis of SL										
Metals, Total													
Arsenic	ug/L	8	GW-5	**0.734**	**16.7**	**7.61**	**3.57**	**0.765**	**0.824**	**1.51**	--	**1.58**	--
Barium	ug/L	200	GW-2	--	--	--	--	--	--	--	--	--	--
Cadmium	ug/L	1.2	GW-3	**0.036 J**	< 1 U	< 0.2 UJ	< 0.2 U	**0.104**	< 0.2 U	< 0.1 U	--	< 0.2 U	--
Chromium	ug/L	27	GW-2	**1.03**	**28.8**	**34.4**	**2.05**	**0.342 J**	< 0.5 U	< 0.5 U	--	**3.28**	--
Copper	ug/L	3.1	GW-2	**3.34**	**8.99**	**5.63 J**	**3.32**	**10.4**	**7.02**	< 0.5 U	--	**4.62**	--
Lead	ug/L	8.1	GW-2	**0.505**	< 1 U	< 0.2 U	< 0.2 U	**0.163**	< 0.2 U	< 0.1 U	--	< 0.2 U	--
Mercury	ug/L	0.025	GW-2	< 0.02 UJ	< 0.0008 U	--	**0.0013**	< 0.02 UJ	**0.00097**	< 0.02 U	--	**0.0012**	--
Nickel	ug/L	8.2	GW-2	**0.873**	**12.1**	**8.07**	**2.82**	**7.11**	**7.38**	**5.86**	--	**5.79**	--
Selenium	ug/L	71	GW-2	--	--	--	--	--	--	--	--	--	--
Silver	ug/L	0.91	GW-2	--	--	--	--	--	--	--	--	--	--
Zinc	ug/L	81	GW-2	< 6 U	**12.1**	**5.33**	**1.15**	**5.66 J**	**6.27**	< 6 U	--	**3.59**	--
Metals, Dissolved													
Arsenic	ug/L	8	GW-5	**0.552**	**17.6**	**7.03**	**3.51**	**0.749**	**0.871**	**1.72**	--	**1.57**	--
Cadmium	ug/L	1.2	GW-3	< 0.1 U	< 1 U	< 0.2 UJ	< 0.2 U	**0.114**	< 0.2 U	**0.053 J**	--	< 0.2 U	--
Chromium	ug/L	27	GW-2	**0.596**	**6.33**	**8.89**	**1.5**	< 0.5 U	< 0.5 U	**0.385 J**	--	**1.03**	--
Copper	ug/L	3.1	GW-2	**1.77**	**8.57**	**3.73**	**3.13**	**10.1**	**7.23**	**4.43**	--	**5.45**	--
Lead	ug/L	8.1	GW-2	**0.115**	< 1 U	< 0.2 U	< 0.2 U	**0.065 J**	< 0.2 U	**0.061 J**	--	< 0.2 U	--
Mercury	ug/L	0.025	GW-2	< 0.02 UJ	**0.00083**	--	**0.0012**	< 0.02 UJ	**0.0017**	< 0.02 U	--	**0.0037**	--
Nickel	ug/L	8.2	GW-2	**0.534**	**12.4**	**7.97**	**2.85**	**7.07**	**7.76**	**6.23**	--	**5.52**	--
Silver	ug/L	0.91	GW-2	--	--	--	--	--	--	--	--	--	--
Zinc	ug/L	81	GW-2	< 5 U	**12.6**	**4.13**	**1.53**	**5.88**	**6.95**	**8.69**	--	**3.51**	--
Metals, Total, Prepared Using Reductive Precipitation													
Arsenic	ug/L	8	GW-5	--	--	< 0.50 U	--	--	--	--	--	--	--
Cadmium	ug/L	1.2	GW-3	--	--	**0.036**	--	--	--	--	--	--	--
Chromium	ug/L	27	GW-2	--	--	**88.0**	--	--	--	--	--	--	--
Copper	ug/L	3.1	GW-2	--	--	**5.36**	--	--	--	--	--	--	--
Lead	ug/L	8.1	GW-2	--	--	**0.716**	--	--	--	--	--	--	--
Nickel	ug/L	8.2	GW-2	--	--	**7.90**	--	--	--	--	--	--	--
Zinc	ug/L	81	GW-2	--	--	**3.71**	--	--	--	--	--	--	--
Metals, Dissolved, Prepared Using Reductive Precipitation													
Arsenic	ug/L	8	GW-5	--	--	< 0.50 U	--	--	--	--	--	--	--
Cadmium	ug/L	1.2	GW-3	--	--	**0.030**	--	--	--	--	--	--	--
Chromium	ug/L	27	GW-2	--	--	**94.6**	--	--	--	--	--	--	--
Copper	ug/L	3.1	GW-2	--	--	**3.62**	--	--	--	--	--	--	--
Lead	ug/L	8.1	GW-2	--	--	**0.330**	--	--	--	--	--	--	--
Nickel	ug/L	8.2	GW-2	--	--	**8.58**	--	--	--	--	--	--	--
Zinc	ug/L	81	GW-2	--	--	**3.13**	--	--	--	--	--	--	--
Butyl Tins													
Dibutyltin Ion	ug/L			< 0.289 UJ	< 0.0077 U	--	< 0.0077 U	--	< 0.0077 U	--	--	< 0.0077 U	--
Monobutyltin	ug/L			< 0.204 UJ	**0.0339**	--	**0.0233**	--	< 0.006 U	--	--	**0.0101**	--
Tetrabutyltin	ug/L			< 0.3 UJ	< 0.03 U	--	< 0.03 U	--	< 0.03 U	--	--	< 0.03 U	--
Tributyltin Ion	ug/L	4.3E-06	GW-3	< 0.193 UJ	< 0.0052 U	--	< 0.0052 U	--	< 0.0052 U	--	--	< 0.0052 U	--
Polychlorinated Biphenyl (PCB) Aroclors													
Total PCB Aroclors (ND = 0)	ug/L	7.0E-06	GW-2	**0.006 J**	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.01 U	< 0.0035 U	< 0.01 U	--	< 0.0035 U	--
Polychlorinated Biphenyl (PCB) Congeners													
Total PCB Congeners (ND = 0)	ug/L	7.0E-06	GW-2	--	--	--	--	--	--	--	**3.74E-05 J**	--	--
Total PCB TEQ (ND = 0)	ug/L	4.4E-09	GW-2	--	--	--	--	--	--	--	< 4.97E-06 U	--	--
Dioxins/Furans													
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	ug/L	5.1E-09	GW-2	--	--	**1.56E-06 J**	--	--	--	--	--	--	--
2,3,7,8-TCDD	ug/L	5.1E-09	GW-2	--	--	< 5.47E-07 U	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)													
1-Methylnaphthalene	ug/L	0.17	GW-4	**0.002 J**	< 0.1 U	--	< 0.1 U	**0.002 J**	< 0.1 U	**0.011**	--	< 0.1 U	--
2-Methylnaphthalene	ug/L	14	GW-3	**0.003 J**	< 0.1 U	--	< 0.1 U	**0.003 J**	< 0.1 U	< 0.01 U	--	< 0.1 U	--
Acenaphthene	ug/L	5.3	GW-3	< 0.01 U	< 0.01 U	--	< 0.01 U	< 0.01 U	< 0.01 U	**0.003 J**	--	< 0.01 U	--
Acenaphthylene	ug/L			< 0.01 U	< 0.01 U	--	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	--	< 0.01 U	--
Anthracene	ug/L	2.1	GW-3	< 0.01 U	< 0.01 U	--	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	--	< 0.01 U	--
Benzo(g,h,i)perylene	ug/L			< 0.01 U	< 0.02 U	--	< 0.02 U	< 0.01 U	< 0.02 U	< 0.01 U	--	< 0.02 U	--
Fluoranthene	ug/L	1.8	GW-3	**0.003 J**	< 0.01 U	--	< 0.01 U	< 0.01 U	< 0.01 U	**0.003 J**	--	< 0.01 U	--
Fluorene	ug/L	3.7	GW-3	< 0.01 U	< 0.01 U	--	< 0.01 U	< 0.01 U	< 0.01 U	**0.002 J**	--	< 0.01 U	--
Naphthalene	ug/L	1.4	GW-2	< 0.01 U	< 0.1 U	--	< 1 U	< 0.01 U	< 0.1 U	**0.023**	--	< 0.1 U	< 100 U
Phenanthrene	ug/L			**0.003 J**	< 0.01 U	--	< 0.01 U	< 0.01 U	< 0.01 U	**0.01 J**	--	< 0.01 U	--
Pyrene	ug/L	2	GW-3	< 0.01 U	< 0.01 U	--	< 0.01 U	< 0.01 U	< 0.01 U	**0.002 J**	--	< 0.01 U	--
Benz(a)anthracene	ug/L	0.00016	GW-2	< 0.01 U	< 0.01 U	--	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	--	< 0.01 U	--
Benzo(a)pyrene	ug/L	1.6E-05	GW-2	< 0.01 U	< 0.01 U	--	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	--	< 0.01 U	--
Benzo(b)fluoranthene	ug/L	0.00016	GW-2	< 0.01 U	< 0.01 U	--	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	--	< 0.01 U	--
Benzo(j)fluoranthene	ug/L			< 0.01 U	--	--	--	< 0.01 U	--	< 0.01 U	--	--	--
Benzo(j,k)fluoranthene	ug/L			--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	ug/L	0.0013	GW-2	< 0.01 U	< 0.01 U	--	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	--	< 0.01 U	--
Chrysene	ug/L	0.016	GW-2	**0.002 J**	< 0.01 U	--	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	--	< 0.01 U	--
Dibenzo(a,h)anthracene	ug/L	1.6E-05	GW-2	< 0.01 UJ	< 0.01 U	--	< 0.01 U	< 0.01 UJ	< 0.01 U	< 0.01 UJ	--	< 0.01 U	--
Indeno(1,2,3-cd)pyrene	ug/L	0.00016	GW-2	< 0.01 U	< 0.01 U	--	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	--	< 0.01 U	--
Total Benzofluoranthenes	ug/L			< 0.01 U	< 0.01 U	--	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	--	< 0.01 U	--
Total HPAHs (ND = 1/2 RDL)	ug/L			**0.05 J**	< 0.02 U	--	< 0.02 U	< 0.01 UJ	< 0.02 U	**0.05 J**	--	< 0.02 U	--
Total LPAHs (ND = 1/2 RDL)	ug/L			**0.028 J**	< 0.1 U	--	< 1 U	< 0.01 U	< 0.1 U	**0.048 J**	--	< 0.1 U	--
Total cPAHs TEQ (ND = 1/2 RDL)	ug/L	1.6E-05	GW-2	**0.00752 J**	< 0.00755 U	--	< 0.00755 U	< 0.00755 UJ	< 0.00755 U	< 0.00755 UJ	--	< 0.00755 U	--
Semivolatile Organic Compounds (SVOCs)													
1,2-Diphenylhydrazine	ug/L	0.02	GW-2	--	< 0.1 U	--	< 0.1 U	--	< 0.1 U	--	--	< 0.1 U	--
2,4,5-Trichlorophenol	ug/L	600	GW-2	< 1.1 U	< 1 U	--	< 1 U	--	< 1 U	--	--	< 1 U	--
2,4,6-Trichlorophenol	ug/L	0.28	GW-2	< 1.1 U	< 1 U	--	< 1 U	--	< 1 U	--	--	< 1 U	--
2,4-Dichlorophenol	ug/L	10	GW-2	< 1.1 U	< 1 U	--	< 1 U	--	< 1 U	--	--	< 1 U	--
2,4-Dimethylphenol	ug/L	2.9	GW-3	< 1.1 U	< 1 U	--	< 1 U	--	< 1 U	--	--	< 1 UJ	--
2,4-Dinitrophenol	ug/L	100	GW-2	< 2.1 UJ	< 3 U	--	< 3 U	--	< 3 U	--	--	< 3 U	--
2,4-Dinitrotoluene	ug/L	0.18	GW-2	< 1.1 U	< 0.5 U	--	< 0.5 U	--	< 0.5 U	--	--	< 0.5 U	--
2,6-Dinitrotoluene	ug/L			< 1.1 U	< 0.5 U	--	< 0.5 U	--	< 0.5 U	--	--	< 0.5 U	--
2-Chloronaphthalene	ug/L	100	GW-2	< 0.01 U	< 0.1 U	--	< 0.1 U	< 0.01 U	< 0.1 U	< 0.01 U	--	< 0.1 U	--
2-Chlorophenol	ug/L	17	GW-2	< 0.2 U	< 1 U	--	< 1 U	--	< 1 U	--	--	< 1 U	--
2-Methylphenol	ug/L	9.8	GW-3	< 0.2 U	< 1 U	--	< 1 U	--	< 1 U	--	--	< 1 U	--
2-Nitroaniline	ug/L			< 1.1 U	< 0.5 U	--	< 0.5 U	--	< 0.5 U	--	--	< 0.5 U	--
2-Nitrophenol	ug/L			< 1.1 U	< 1 U	--	< 1 U	--	< 1 U	--	--	< 1 U	--
3 & 4 Methylphenol	ug/L			--	< 2 U	--	< 2 U	--	< 2 U	--	--	< 2 U	--
3,3'-Dichlorobenzidine	ug/L	0.0033	GW-2	< 1.1 U	< 1 U	--	< 1 U	--	< 1 U	--	--	< 1 U	--
3-Nitroaniline	ug/L			< 1.1 U	< 10 U	--	< 10 U	--	< 10 U	--	--	< 10 U	--
4,6-Dinitro-2-methylphenol	ug/L	7	GW-2	< 2.1 U	< 3 U	--	< 3 U	--	< 3 U	--	--	< 3 U	--
4-Bromophenyl phenyl ether	ug/L			< 0.2 U	< 0.1 U	--	< 0.1 U	--	< 0.1 U	--	--	< 0.1 U	--
4-Chloro-3-methylphenol	ug/L	36	GW-2	< 1.1 U	< 1 U	--	< 1 U	--	< 1 U	--	--	< 1 U	--
4-Chloroaniline	ug/L			--	< 10 U	--	< 10 U	--	< 10 U	--	--	< 10 U	--
4-Chlorophenyl phenyl ether	ug/L			< 0.2 U	< 0.1 U	--	< 0.1 U	--	< 0.1 U	--	--	< 0.1 U	--
4-Methylphenol	ug/L	110	GW-3	< 0.2 U	--	--	--	--	--	--	--	--	--
4-Nitroaniline	ug/L			< 1.1 U	< 10 U	--	< 10 U	--	< 10 U	--	--	< 10 U	--
4-Nitrophenol	ug/L			< 1.1 U	< 3 U	--	< 3 U	--	< 3 U	--	--	< 3 U	--
Benzoic acid	ug/L	590	GW-3	< 2.1 U	< 5 U	--	< 5 U	--	< 5 U	--	--	< 5 U	--
Benzyl alcohol	ug/L	56	GW-3	< 0.2 U	< 1 U	--	< 1 U	--	< 1 U	--	--	< 1 U	--
Benzyl butyl phthalate	ug/L	0.013	GW-2	< 0.2 U	< 1 U	--	< 1 U	--	< 1 U	--	--	< 1 U	--
Bis(2-chloro-1-methylethyl) ether	ug/L	100	GW-2	< 0.2 U	< 0.1 U	--	< 0.1 U	--	< 0.1 U	--	--	< 0.1 U	--
Bis(2-chloroethoxy)methane	ug/L			< 0.2 U	< 0.1 U	--	< 0.1 U	--	< 0.1 U	--	--	< 0.1 U	--
Bis(2-chloroethyl) ether	ug/L	0.06	GW-2	< 0.2 U	< 0.1 U	--	< 0.1 U	--	< 0.1 U	--	--	< 0.1 U	--
Bis(2-ethylhexyl) phthalate	ug/L	0.046	GW-2	< 0.2 U	< 1.6 U	--	< 1.6 U	--	< 1.6 U	--	--	< 1.6 U	--
Carbazole	ug/L			< 0.01 U	< 0.1 U	--	< 0.1 U	< 0.01 U	< 0.1 U	**0.001 J**	--	< 0.1 U	--
Dibenzofuran	ug/L	3.1	GW-3	**0.002 J**	< 0.1 U	--	< 0.1 U	**0.002 J**	< 0.1 U	**0.003 J**	--	< 0.1 U	--
Diethyl phthalate	ug/L	93	GW-3	**0.1 J**	< 1 U	--	< 1 U	--	< 1 U	--	--	< 1 U	--
Dimethyl phthalate	ug/L	59	GW-3	< 0.2 U	< 1 U	--	< 1 U	--	< 1 U	--	--	< 1 U	--
Di-n-butyl phthalate	ug/L	8	GW-2	< 0.2 U	< 1 U	--	< 1 U	--	< 1 U	--	--	< 1 U	--
Di-n-octyl phthalate	ug/L	2.3	GW-3	< 0.2 U	< 1 U	--	< 1 U	--	< 1 U	--	--	< 1 U	--
Hexachlorobenzene	ug/L	5E-06	GW-2	< 0.0013 U	< 0.1 U	--	< 0.1 U	--	< 0.1 U	--	--	< 0.1 U	--
Hexachlorobutadiene	ug/L	0.01	GW-2	< 0.0013 U	< 0.1 U	--	< 0.5 U	< 0.5 U	< 0.1 U	< 0.5 U	--	< 0.1 U	< 50 U
Hexachlorocyclopentadiene	ug/L	1	GW-2	< 1.1 UJ	< 0.3 U	--	< 0.3 U	--	< 0.3 U	--	--	< 0.3 U	--
Hexachloroethane	ug/L	0.02	GW-2	< 0.2 U	< 0.1 U	--	< 0.1 U	--	< 0.1 U	--	--	< 0.1 U	--
Isophorone	ug/L	110	GW-2	< 0.2 U	< 0.1 U	--	< 0.1 U	--	< 0.1 U	--	--	< 0.1 U	--
Nitrobenzene	ug/L	100	GW-2	< 0.2 U	< 0.1 U	--	< 0.1 U	--	< 0.1 U	--	--	< 0.1 U	--
N-Nitrosodimethylamine	ug/L	0.34	GW-2	--	< 0.1 UJ	--	< 0.1 U	--	< 0.1 UJ	--	--	< 0.1 U	--
N-Nitroso-di-n-propylamine	ug/L	0.058	GW-2	< 0.2 U	< 0.1 U	--	< 0.1 U	--	< 0.1 U	--	--	< 0.1 U	--
N-Nitrosodiphenylamine	ug/L	0.55	GW-3	< 0.2 U	< 0.1 U	--	< 0.1 U	--	< 0.1 U	--	--	< 0.1 U	--
Pentachlorophenol	ug/L	0.002	GW-2	< 1.1 U	< 0.5 U	--	< 0.5 U	--	< 0.5 U	--	--	< 0.5 U	--
Perylene	ug/L			< 0.01 U	--	--	--	< 0.01 U	--	< 0.01 U	--	--	--
Phenol	ug/L	100	GW-3	< 0.2 U	< 1 U	--	< 1 U	--	< 1 U	--	--	< 1 U	--

Table I.3.A. Groundwater Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL.

Location				MW-11			MW-11D	MW-12		MW-13			
Date				03/30/21	10/27/22	03/23/23	10/25/22	03/30/21	10/27/22	03/31/21	05/27/21	10/26/22	03/24/23
Sample				MW-11-210330	MW-11-221027	MW-11-230323	MW-11D-221024	MW-12-210330	MW-12-221027	MW-13-210331	MW-13-210527	MW-13-221026	MW-13-230324
Hydrostatigraphic Unit				Fill	Fill	Fill	Alluvial	Fill	Fill	Fill	Fill	Fill	Fill
Tidal Stage				Higher-High	Higher-High	Higher-High	Higher-High	Lower-Low	Higher-High	Lower-Low	Lower-Low	Higher-High	Lower-Low
Tidal Trend				Outgoing	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing
Analyte	Unit	Preliminary RI SL	Basis of SL										
Pesticides													
2,4'-DDD	ug/L			< 0.0013 U	--	--	--	--	--	--	--	--	--
2,4'-DDE	ug/L			< 0.0013 U	--	--	--	--	--	--	--	--	--
2,4'-DDT	ug/L			< 0.0013 U	--	--	--	--	--	--	--	--	--
4,4'-DDD	ug/L	7.9E-06	GW-2	< 0.0013 U	< 0.00125 U	--	< 0.00125 U	--	< 0.00125 U	--	--	< 0.00125 U	--
4,4'-DDE	ug/L	8.8E-07	GW-2	< 0.0013 U	< 0.00125 U	--	< 0.00125 U	--	< 0.00125 U	--	--	< 0.00125 U	--
4,4'-DDT	ug/L	1.2E-06	GW-2	< 0.0013 U	< 0.00125 U	--	< 0.00125 U	--	< 0.00125 U	--	--	< 0.00125 U	--
Aldrin	ug/L	4.1E-08	GW-2	**0.0032**	< 0.000625 U	--	< 0.000625 U	--	< 0.000625 U	--	--	< 0.000625 U	--
Alpha-BHC	ug/L	4.8E-05	GW-2	**0.0033**	< 0.000625 U	--	< 0.000625 U	--	< 0.000625 U	--	--	< 0.000625 U	--
Beta-BHC	ug/L	0.0014	GW-2	< 0.0006 U	< 0.000625 U	--	< 0.000625 U	--	< 0.000625 U	--	--	< 0.000625 U	--
Chlordane	ug/L	2.2E-05	GW-2	--	--	--	--	--	--	--	--	--	--
cis-Chlordane	ug/L	7.8E-05	GW-3	< 0.0006 U	< 0.000625 U	--	< 0.000625 U	--	< 0.000625 U	--	--	< 0.000625 U	--
cis-Nonachlor	ug/L			< 0.0013 U	--	--	--	--	--	--	--	--	--
Delta-BHC	ug/L			< 0.0006 U	< 0.000625 U	--	< 0.000625 U	--	< 0.000625 U	--	--	< 0.000625 U	--
Dieldrin	ug/L	7E-08	GW-2	< 0.0013 U	< 0.00125 U	--	< 0.00125 U	--	< 0.00125 U	--	--	< 0.00125 U	--
Endosulfan I	ug/L	0.0087	GW-2	< 0.0006 U	< 0.000625 U	--	< 0.000625 U	--	< 0.000625 U	--	--	< 0.000625 U	--
Endosulfan II	ug/L	0.0087	GW-2	< 0.0013 U	< 0.00125 U	--	< 0.00125 U	--	< 0.00125 U	--	--	< 0.00125 U	--
Endosulfan Sulfate	ug/L	10	GW-2	< 0.0013 UJ	< 0.00125 U	--	< 0.00125 U	--	< 0.00125 U	--	--	< 0.00125 U	--
Endrin	ug/L	0.002	GW-2	< 0.0013 U	< 0.00125 U	--	< 0.00125 U	--	< 0.00125 U	--	--	< 0.00125 U	--
Endrin Aldehyde	ug/L	0.035	GW-2	< 0.0013 UJ	< 0.00125 U	--	< 0.00125 U	--	< 0.00125 U	--	--	< 0.00125 U	--
Endrin ketone	ug/L			< 0.0013 UJ	< 0.00125 U	--	< 0.00125 U	--	< 0.00125 U	--	--	< 0.00125 U	--
Heptachlor	ug/L	3.4E-07	GW-2	< 0.0006 U	< 0.000625 U	--	< 0.000625 U	--	< 0.000625 U	--	--	< 0.000625 U	--
Heptachlor Epoxide	ug/L	2.4E-06	GW-2	< 0.0006 U	< 0.000625 U	--	< 0.000625 U	--	< 0.000625 U	--	--	< 0.000625 U	--
Lindane	ug/L	0.13	GW-2	< 0.0006 U	< 0.000625 U	--	< 0.000625 U	--	< 0.000625 U	--	--	< 0.000625 U	--
Methoxychlor	ug/L	0.02	GW-2	< 0.0063 U	< 0.00625 U	--	< 0.00625 U	--	< 0.00625 U	--	--	< 0.00625 U	--
Mirex	ug/L	0.001	GW-2	< 0.0013 U	--	--	--	--	--	--	--	--	--
Oxychlordane	ug/L			< 0.0013 U	--	--	--	--	--	--	--	--	--
Toxaphene	ug/L	3.2E-05	GW-2	--	< 0.0625 U	--	< 0.0625 U	--	< 0.0625 U	--	--	< 0.0625 U	--
trans-Chlordane	ug/L	7.8E-05	GW-3	< 0.0006 U	< 0.000625 U	--	< 0.000625 U	--	< 0.000625 U	--	--	< 0.000625 U	--
trans-Nonachlor	ug/L			< 0.0013 U	--	--	--	--	--	--	--	--	--
Total Petroleum Hydrocarbons (TPH)													
Gasoline-Range Organics	ug/L	800	GW-2	< 100 U	< 100 U	--	< 100 U	< 100 U	< 100 U	R	--	R	R
Diesel-Range Organics	ug/L	500	GW-2	< 105 U	< 50 U	--	< 50 U	< 105 U	**73**	< 100 U	--	< 50 U	< 50 U
Motor Oil-Range Organics	ug/L	500	GW-2	< 211 U	< 250 U	--	< 250 U	< 211 U	< 250 U	< 200 U	--	< 250 U	< 250 U
Diesel and Oil Extended-Range Organics	ug/L	500	GW-2	< 211 U	< 250 U	--	< 250 U	< 211 U	**73**	< 200 U	--	< 250 U	< 250 U
Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)													
Benzene	ug/L	1.6	GW-2	< 0.2 U	< 0.35 UJ	--	< 0.35 U	< 0.2 U	< 0.35 UJ	**0.07 J**	--	< 0.35 U	< 35 U
Toluene	ug/L	100	GW-2	< 0.2 U	< 1 UJ	--	< 1 U	< 0.2 U	< 1 UJ	**0.11 J**	--	< 1 U	< 100 U
Ethylbenzene	ug/L	21	GW-2	< 0.2 U	< 1 UJ	--	< 1 U	< 0.2 U	< 1 UJ	< 0.2 U	--	< 1 U	< 100 U
Total Xylenes	ug/L	110	GW-2	< 0.6 U	< 2 UJ	--	< 2 U	< 0.6 U	< 2 UJ	< 0.6 U	--	< 2 U	< 200 U
Volatile Organic Compounds (VOCs)													
1,1,1,2-Tetrachloroethane	ug/L	7.1	GW-4	< 0.2 U	< 1 UJ	--	< 1 U	< 0.2 U	< 1 UJ	< 0.2 U	--	< 1 U	< 100 U
1,1,1-Trichloroethane	ug/L	5400	GW-4	< 0.2 U	< 1 UJ	--	< 1 U	< 0.2 U	< 1 UJ	< 0.2 U	--	< 1 U	< 100 U
1,1,2 - Trichlorotrifluoroethane	ug/L	170	GW-4	< 0.2 U	--	--	--	< 0.2 U	--	< 0.2 U	--	--	--
1,1,2,2-Tetrachloroethane	ug/L	0.3	GW-2	< 0.2 U	< 0.2 UJ	--	< 0.2 U	< 0.2 U	< 0.2 UJ	< 0.2 U	--	< 0.2 U	< 20 U
1,1,2-Trichloroethane	ug/L	0.9	GW-2	< 0.2 U	< 0.5 UJ	--	< 0.5 U	< 0.2 U	< 0.5 UJ	< 0.2 U	--	< 0.5 U	< 50 U
1,1-Dichloroethane	ug/L	11	GW-4	< 0.2 U	< 1 UJ	--	< 1 U	< 0.2 U	< 1 UJ	< 0.2 U	--	< 1 U	< 100 U
1,1-Dichloroethene	ug/L	130	GW-4	< 0.2 U	< 1 UJ	--	< 1 U	< 0.2 U	< 1 UJ	**3.2**	--	**8.8**	< 100 U
1,1-Dichloropropene	ug/L			< 0.2 U	< 1 UJ	--	< 1 U	< 0.2 U	< 1 UJ	< 0.2 U	--	< 1 U	< 100 U
1,2,3-Trichlorobenzene	ug/L			< 0.5 U	< 1 UJ	--	< 1 U	< 0.5 U	< 1 UJ	< 0.5 U	--	< 1 U	< 100 U
1,2,3-Trichloropropane	ug/L	20	GW-4	< 0.5 U	< 1 UJ	--	< 1 U	< 0.5 U	< 1 UJ	< 0.5 U	--	< 1 U	< 100 U
1,2,4-Trichlorobenzene	ug/L	0.037	GW-2	< 0.2 U	< 0.1 U	--	< 1 U	< 0.5 U	< 0.1 U	< 0.5 U	--	< 0.1 U	< 100 U
1,2,4-Trimethylbenzene	ug/L	240	GW-4	< 0.2 U	< 1 UJ	--	< 1 U	< 0.2 U	< 1 UJ	**0.15 J**	--	< 1 U	< 100 U
1,2-Dibromo-3-chloropropane	ug/L	0.042	GW-4	< 0.5 U	< 10 UJ	--	< 10 U	< 0.5 U	< 10 UJ	< 0.5 U	--	< 10 U	< 1000 U
1,2-Dibromoethane (EDB)	ug/L	0.3	GW-4	< 0.2 U	< 1 UJ	--	< 1 U	< 0.2 U	< 1 UJ	< 0.2 U	--	< 1 U	< 100 U
1,2-Dichlorobenzene	ug/L	4.5	GW-3	< 0.2 U	< 0.1 U	--	< 1 U	< 0.2 U	< 0.1 U	**0.21**	--	< 0.1 U	< 100 U
1,2-Dichloroethane (EDC)	ug/L	3.5	GW-4	< 0.2 U	< 0.2 UJ	--	< 0.2 U	< 0.2 U	< 0.2 UJ	< 0.2 U	--	< 0.2 U	< 20 U
1,2-Dichloropropane	ug/L	3.1	GW-2	< 0.2 U	< 1 UJ	--	< 1 U	< 0.2 U	< 1 UJ	< 0.2 U	--	< 1 U	< 100 U
1,3,5-Trimethylbenzene	ug/L	170	GW-4	< 0.2 U	< 1 UJ	--	< 1 U	< 0.2 U	< 1 UJ	< 0.2 U	--	< 1 U	< 100 U
1,3-Dichlorobenzene	ug/L	2	GW-2	< 0.2 U	< 0.1 U	--	< 1 U	< 0.2 U	< 0.1 U	< 0.2 U	--	< 0.1 U	< 100 U
1,3-Dichloropropane	ug/L	1.2	GW-2	< 0.2 U	< 1 UJ	--	< 1 U	< 0.2 U	< 1 UJ	< 0.2 U	--	< 1 U	< 100 U
1,4-Dichloro-2-Butene	ug/L			< 1 U	--	--	--	< 1 U	--	< 1 UJ	--	--	--
1,4-Dichlorobenzene	ug/L	5	GW-4	< 0.2 U	< 0.1 U	--	< 0.1 U	< 0.2 U	< 0.1 U	**0.41**	--	< 0.1 U	< 100 U
2,2-Dichloropropane	ug/L			< 0.2 U	< 1 UJ	--	< 1 U	< 0.2 U	< 1 UJ	< 0.2 U	--	< 1 U	< 100 U
2-Butanone	ug/L	1700000	GW-4	< 5 U	< 20 UJ	--	< 20 U	< 5 U	< 20 UJ	< 5 U	--	< 20 U	< 2000 U
2-Chlorotoluene	ug/L			< 0.2 U	< 1 UJ	--	< 1 U	< 0.2 U	< 1 UJ	< 0.2 U	--	< 1 U	< 100 U
2-Hexanone	ug/L	7300	GW-4	< 5 U	< 10 UJ	--	< 10 U	< 5 U	< 10 UJ	< 5 UJ	--	< 10 U	< 1000 U
2-Pentanone	ug/L			< 5 U	--	--	--	< 5 U	--	< 5 UJ	--	--	--
4-Chlorotoluene	ug/L			< 0.2 U	< 1 UJ	--	< 1 U	< 0.2 U	< 1 UJ	< 0.2 U	--	< 1 U	< 100 U
4-Methyl-2-pentanone	ug/L	470000	GW-4	< 5 U	< 10 UJ	--	< 10 U	< 5 U	< 10 UJ	< 5 UJ	--	< 10 U	< 1000 U
Acetone	ug/L			**4.52 J**	< 50 UJ	--	< 50 U	< 5 U	< 50 UJ	**4.44 J**	--	< 50 U	< 5000 U
Acrolein	ug/L	1.1	GW-2	< 5 U	--	--	--	< 5 U	--	< 5 U	--	--	--
Acrylonitrile	ug/L	0.028	GW-2	< 1 U	--	--	--	< 1 U	--	< 1 U	--	--	--
Bromobenzene	ug/L	630	GW-4	< 0.2 U	< 1 UJ	--	< 1 U	< 0.2 U	< 1 UJ	< 0.2 U	--	< 1 U	< 100 U
Bromochloromethane	ug/L			< 0.2 U	--	--	--	< 0.2 U	--	< 0.2 U	--	--	--
Bromodichloromethane	ug/L	1.4	GW-4	< 0.2 U	< 0.5 UJ	--	< 0.5 U	< 0.2 U	< 0.5 UJ	< 0.2 U	--	< 0.5 U	< 50 U
Bromoform	ug/L	12	GW-2	< 0.2 U	< 5 UJ	--	< 5 U	< 0.2 U	< 5 UJ	< 0.2 UJ	--	< 5 U	< 500 U
Bromomethane	ug/L	11	GW-4	< 1 U	< 5 UJ	--	< 5 U	< 1 U	< 5 UJ	< 1 U	--	< 5 U	< 500 U
Carbon Disulfide	ug/L	840	GW-4	< 0.2 U	--	--	--	< 0.2 U	--	< 0.2 U	--	--	--
Carbon Tetrachloride	ug/L	0.35	GW-2	< 0.2 U	< 0.5 UJ	--	< 0.5 U	< 0.2 U	< 0.5 UJ	< 0.2 U	--	< 0.5 U	< 50 U
Chlorobenzene	ug/L	200	GW-2	< 0.2 U	< 1 UJ	--	< 1 U	< 0.2 U	< 1 UJ	< 0.2 U	--	< 1 U	< 100 U
Chloroethane	ug/L	15000	GW-4	< 0.2 U	< 1 UJ	--	< 1 U	< 0.2 U	< 1 UJ	< 0.2 U	--	< 1 U	< 100 U
Chloroform	ug/L	1.2	GW-4	< 0.2 U	< 1 UJ	--	< 1 U	< 0.2 U	< 1 UJ	**0.69**	--	< 1 U	< 100 U
Chloromethane	ug/L	150	GW-4	< 0.5 U	< 10 UJ	--	< 10 U	< 0.5 U	< 10 UJ	< 0.5 U	--	< 10 U	< 1000 U
cis-1,2-Dichloroethene (DCE)	ug/L	180	GW-4	< 0.2 U	< 1 UJ	--	< 1 U	< 0.2 U	< 1 UJ	**555**	--	**1400**	**520**
cis-1,3-Dichloropropene	ug/L	1.2	GW-2	< 0.2 U	< 0.4 UJ	--	< 0.4 U	< 0.2 U	< 0.4 UJ	< 0.2 U	--	< 0.4 U	< 40 U
Dibromochloromethane	ug/L	2.2	GW-2	< 0.2 U	< 0.5 UJ	--	< 0.5 U	< 0.2 U	< 0.5 UJ	< 0.2 U	--	< 0.5 U	< 50 U
Dibromomethane	ug/L	97	GW-4	< 0.2 U	< 1 UJ	--	< 1 U	< 0.2 U	< 1 UJ	< 0.2 U	--	< 1 U	< 100 U
Dichlorodifluoromethane	ug/L	4.2	GW-4	< 0.2 U	< 1 UJ	--	< 1 U	< 0.2 U	< 1 UJ	< 0.2 U	--	< 1 U	< 100 U
Isopropylbenzene	ug/L	910	GW-4	< 0.2 U	< 1 UJ	--	< 1 U	< 0.2 U	< 1 UJ	< 0.2 U	--	< 1 U	< 100 U
m,p-Xylenes	ug/L			< 0.4 U	< 2 UJ	--	< 2 U	< 0.4 U	< 2 UJ	< 0.4 U	--	< 2 U	< 200 U
Methyl tert-butyl ether (MTBE)	ug/L	860	GW-4	< 0.5 U	< 1 UJ	--	< 1 U	< 0.5 U	< 1 UJ	< 0.5 U	--	< 1 U	< 100 U
Methylene Chloride	ug/L	100	GW-2	< 1 U	< 5 UJ	--	**8 J**	< 1 U	< 5 UJ	< 1 U	--	**8.8 J**	< 500 U
Methyliodide	ug/L			< 1 U	--	--	--	< 1 U	--	< 1 U	--	--	--
n-Butylbenzene	ug/L			< 0.2 U	--	--	--	< 0.2 U	--	< 0.2 U	--	--	--
n-Hexane	ug/L	7.2	GW-4	--	< 5 UJ	--	< 5 U	--	< 5 UJ	--	--	< 5 U	< 500 U
n-Propylbenzene	ug/L	2300	GW-4	< 0.2 U	< 1 UJ	--	< 1 U	< 0.2 U	< 1 UJ	< 0.2 U	--	< 1 U	< 100 U
o-Xylene	ug/L			< 0.2 U	< 1 UJ	--	< 1 U	< 0.2 U	< 1 UJ	< 0.2 U	--	< 1 U	< 100 U
p-Isopropyltoluene	ug/L	88	GW-4	< 0.2 U	< 1 UJ	--	< 1 U	< 0.2 U	< 1 UJ	< 0.2 U	--	< 1 U	< 100 U
sec-Butylbenzene	ug/L			< 0.2 U	< 1 UJ	--	< 1 U	< 0.2 U	< 1 UJ	< 0.2 U	--	< 1 U	< 100 U
Styrene	ug/L	8500	GW-4	< 0.2 U	< 1 UJ	--	< 1 U	< 0.2 U	< 1 UJ	< 0.2 U	--	< 1 U	< 100 U
tert-Butylbenzene	ug/L			< 0.2 U	< 1 UJ	--	< 1 U	< 0.2 U	< 1 UJ	< 0.2 U	--	< 1 U	< 100 U
Tetrachloroethene (PCE)	ug/L	2.9	GW-2	< 0.2 U	< 1 UJ	--	< 1 U	< 0.2 U	< 1 UJ	**4640**	--	**2900**	**4400**
trans-1,2-Dichloroethene	ug/L	77	GW-4	< 0.2 U	< 1 UJ	--	< 1 U	< 0.2 U	< 1 UJ	**4.99**	--	**11**	< 100 U
trans-1,3-Dichloropropene	ug/L	1.2	GW-2	< 0.2 U	< 0.4 UJ	--	< 0.4 U	< 0.2 U	< 0.4 UJ	< 0.2 UJ	--	< 0.4 U	< 40 U
Trichloroethene (TCE)	ug/L	0.7	GW-2	< 0.2 U	< 0.5 UJ	--	< 0.5 U	< 0.2 U	< 0.5 UJ	**259**	--	**280**	**170**
Trichlorofluoromethane	ug/L	120	GW-4	< 0.2 U	< 1 UJ	--	< 1 U	< 0.2 U	< 1 UJ	< 0.2 U	--	< 1 U	< 100 U
Vinyl Acetate	ug/L	8100	GW-4	< 0.2 U	--	--	--	< 0.2 U	--	< 0.2 U	--	--	--
Vinyl Chloride	ug/L	0.18	GW-2	< 0.2 U	< 0.02 UJ	--	< 0.02 U	< 0.2 U	< 0.02 UJ	**0.53**	--	**1.2**	< 2 U
Conventionals													
Total Organic Carbon	ug/L			**1290**	--	--	--	**6840**	--	**4830**	--	--	--
Total Suspended Solids	mg/L			**6**	< 5 UJ	**5.6**	< 5 U	**4**	< 5 UJ	**4**	--	**5.2**	**20**
Field Parameters													
Temperature	deg C			**7.6**	**15**	**7.85**	--	**12.6**	**15**	**14.6**	**13.7**	--	**12.4**
Specific Conductance	uS/cm			**2660**	**12900**	**5580**	**2380**	**938**	**635**	**482**	**406**	**330**	**313**
Dissolved Oxygen	mg/L			**9.38**	**6.4**	**10.7**	**0.1**	**1.78**	**1.21**	**1.21**	**4.9**	**3.35**	**1.4**
pH	pH units			**7.17**	**6.34**	**6.77**	**7**	**6.37**	**6.12**	**6.41**	**6.48**	**5.92**	**6.19**
Oxidation Reduction Potential	mV			**145**	**145**	**223**	**-35.1**	**116**	**81.8**	**112**	**94.7**	**166**	**16**
Turbidity	NTU			**9.98**	**7.84**	**21.7**	**15.3**	**1.87**	**0.83**	**6.41**	**22.9**	**50.6**	**7**

Table I.3.A. Groundwater Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL.

				Location	MW-13D		MW-14			MW-15				MW-16	MW-16D	
				Date	10/26/22	03/24/23	03/31/21	10/24/22	03/22/23	03/30/21	05/27/21	10/24/22	03/22/23	03/24/23	10/26/22	03/23/23
				Sample	MW-13D-221026	MW-13D-230324	MW-14-210331	MW-14-221024	MW-14-230322	MW-15-210330	MW-15-210527	MW-15-221024	MW-15-230322	MW-16-230324	MW-16D-221026	MW-16D-230323
				Hydrostatigraphic Unit	Alluvial	Alluvial	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Alluvial	Alluvial
				Tidal Stage	Higher-High	Lower-Low	Lower-Low	Higher-High	Lower-Low	Lower-Low	Lower-Low	Higher-High	Lower-Low	Higher-High	Higher-High	Lower-Low
				Tidal Trend	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing
Analyte	Unit	Preliminary RI SL	Basis of SL													
Metals, Total																
Arsenic	ug/L	8	GW-5	**8.52**	--	< 0.2 U	< 0.5 U	--	**0.832**	--	**1.99**	**0.559**	**1.9**	**1.98**	**4.41**	
Barium	ug/L	200	GW-2	--	--	--	--	--	--	--	--	--	--	--	--	
Cadmium	ug/L	1.2	GW-3	< 0.2 U	--	< 0.1 U	< 0.2 U	--	**0.083 J**	--	< 0.2 U	< 0.2 U	**0.26**	< 0.2 U	< 0.2 U	
Chromium	ug/L	27	GW-2	**1.52**	--	< 0.5 U	< 0.5 U	--	**0.769**	--	**1.12**	< 0.5 U	**1.21 J**	< 2.5 U	**1.21 J**	
Copper	ug/L	3.1	GW-2	**1.03**	--	< 0.5 U	**1.61**	--	**9.53**	--	**9.26**	**8.94**	**9.33**	**3.73**	**4.04 J**	
Lead	ug/L	8.1	GW-2	< 0.2 U	--	< 0.1 U	< 0.2 U	--	**4.67**	--	**2.41**	**0.307**	**0.452**	< 0.2 U	**0.211**	
Mercury	ug/L	0.025	GW-2	< 0.0008 U	--	< 0.02 U	**0.00083**	--	< 0.02 UJ	--	**0.0059**	--	**0.0019**	**0.0009**	--	
Nickel	ug/L	8.2	GW-2	**3.48**	--	< 0.5 U	**3.75**	--	**2.48**	--	**2.48**	**1.75**	**2.49**	**53.7**	**49.6**	
Selenium	ug/L	71	GW-2	--	--	--	--	--	--	--	--	--	--	--	--	
Silver	ug/L	0.91	GW-2	--	--	--	--	--	--	--	--	--	--	--	--	
Zinc	ug/L	81	GW-2	**9.47**	--	< 6 U	**1.72**	--	**13.8**	--	**5.46**	**4.11**	**41.2**	**6.41**	**5.08**	
Metals, Dissolved																
Arsenic	ug/L	8	GW-5	**8.33**	--	**0.254**	< 0.5 U	--	**0.698**	--	**1.83**	< 0.5 U	**1.66**	**2.01**	**3.75**	
Cadmium	ug/L	1.2	GW-3	< 0.2 U	--	< 0.1 U	< 0.2 U	--	**0.076 J**	--	< 0.2 U	< 0.2 U	**0.247**	< 0.2 U	< 0.2 U	
Chromium	ug/L	27	GW-2	**0.979**	--	< 0.5 U	< 0.5 U	--	**0.289 J**	--	< 0.5 U	< 0.5 U	**1.19**	**1.08**	**0.985 J**	
Copper	ug/L	3.1	GW-2	**0.799 J**	--	**3.28**	**1.58**	--	**6.42**	--	**4.6**	**8.11**	**9.62**	**4**	**3.79**	
Lead	ug/L	8.1	GW-2	< 0.2 U	--	**0.052 J**	< 0.2 U	--	**1.99**	--	**0.29**	**0.204**	**0.421**	**0.606**	< 0.2 U	
Mercury	ug/L	0.025	GW-2	**0.00099**	--	< 0.02 U	< 0.0008 U	--	< 0.02 UJ	--	**0.0028**	--	**0.0019**	**0.0013**	--	
Nickel	ug/L	8.2	GW-2	**3.21**	--	**1.34**	**3.49**	--	**2.23**	--	**2.28**	**1.56**	**2.42**	**56.6**	**51.8**	
Silver	ug/L	0.91	GW-2	--	--	--	--	--	--	--	--	--	--	--	--	
Zinc	ug/L	81	GW-2	**9.64**	--	**5.1**	**1.53**	--	**10.9**	--	**3.75**	**3.85**	**37.5**	**8.28**	**5.18**	
Metals, Total, Prepared Using Reductive Precipitation																
Arsenic	ug/L	8	GW-5	--	--	--	--	--	--	--	--	--	< 0.50 U	--	**0.69**	
Cadmium	ug/L	1.2	GW-3	--	--	--	--	--	--	--	--	--	**0.251**	--	**0.120**	
Chromium	ug/L	27	GW-2	--	--	--	--	--	--	--	--	--	< 0.20 U	--	**0.55**	
Copper	ug/L	3.1	GW-2	--	--	--	--	--	--	--	--	--	**8.98**	--	**3.60**	
Lead	ug/L	8.1	GW-2	--	--	--	--	--	--	--	--	--	**0.514**	--	**0.223**	
Nickel	ug/L	8.2	GW-2	--	--	--	--	--	--	--	--	--	**1.23**	--	**40.1**	
Zinc	ug/L	81	GW-2	--	--	--	--	--	--	--	--	--	**39.1**	--	**5.03**	
Metals, Dissolved, Prepared Using Reductive Precipitation																
Arsenic	ug/L	8	GW-5	--	--	--	--	--	--	--	--	--	< 0.50 U	--	< 0.50 U	
Cadmium	ug/L	1.2	GW-3	--	--	--	--	--	--	--	--	--	**0.252**	--	**0.118**	
Chromium	ug/L	27	GW-2	--	--	--	--	--	--	--	--	--	**0.68**	--	**0.38**	
Copper	ug/L	3.1	GW-2	--	--	--	--	--	--	--	--	--	**8.98**	--	**2.93**	
Lead	ug/L	8.1	GW-2	--	--	--	--	--	--	--	--	--	**0.493**	--	**0.071**	
Nickel	ug/L	8.2	GW-2	--	--	--	--	--	--	--	--	--	**1.23**	--	**41.7**	
Zinc	ug/L	81	GW-2	--	--	--	--	--	--	--	--	--	**37.9**	--	**4.96**	
Butyl Tins																
Dibutyltin Ion	ug/L			< 0.0077 U	--	< 0.289 UJ	< 0.0077 U	--	< 0.289 UJ	--	< 0.0077 U	--	< 0.0077 U	< 0.0077 U	--	
Monobutyltin	ug/L			**0.0949**	--	< 0.204 UJ	**0.0165**	--	< 0.204 UJ	--	**0.0452**	--	**0.0092**	**0.0942**	--	
Tetrabutyltin	ug/L			< 0.03 U	--	< 0.3 UJ	< 0.03 U	--	< 0.3 UJ	--	< 0.03 U	--	< 0.03 U	< 0.03 U	--	
Tributyltin Ion	ug/L	4.3E-06	GW-3	< 0.0052 U	--	< 0.193 UJ	< 0.0052 U	--	< 0.193 UJ	--	< 0.0052 U	--	< 0.0052 U	< 0.0052 U	--	
Polychlorinated Biphenyl (PCB) Aroclors																
Total PCB Aroclors (ND = 0)	ug/L	7.0E-06	GW-2	< 0.0035 U	--	< 0.012 U	< 0.0035 U	--	**0.007 J**	--	< 0.0035 U	< 0.0035 U	**0.044**	**0.17**	**0.16**	
Polychlorinated Biphenyl (PCB) Congeners																
Total PCB Congeners (ND = 0)	ug/L	7.0E-06	GW-2	--	--	--	--	--	--	**0.00119 J**	--	--	--	--	--	
Total PCB TEQ (ND = 0)	ug/L	4.4E-09	GW-2	--	--	--	--	--	--	**1.22E-09**	--	--	--	--	--	
Dioxins/Furans																
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	ug/L	5.1E-09	GW-2	--	--	--	--	--	--	--	--	< 8.71E-07 U	**1.97E-06 J**	--	--	
2,3,7,8-TCDD	ug/L	5.1E-09	GW-2	--	--	--	--	--	--	--	--	< 3.64E-07 U	< 4.61E-07 U	--	--	
Polycyclic Aromatic Hydrocarbons (PAHs)																
1-Methylnaphthalene	ug/L	0.17	GW-4	< 0.1 U	--	< 0.01 U	< 0.1 U	--	**0.003 J**	--	< 0.1 U	--	< 0.1 U	< 0.1 U	< 0.1 U	
2-Methylnaphthalene	ug/L	14	GW-3	< 0.1 U	--	< 0.01 U	< 0.1 U	--	**0.005 J**	--	< 0.1 U	--	< 0.1 U	< 0.1 U	< 0.1 U	
Acenaphthene	ug/L	5.3	GW-3	< 0.01 U	--	< 0.01 U	< 0.01 U	--	< 0.01 U	--	< 0.01 U	--	< 0.01 U	< 0.01 U	< 0.01 U	
Acenaphthylene	ug/L			< 0.01 U	--	< 0.01 U	< 0.01 U	--	< 0.01 U	--	< 0.01 U	--	< 0.01 U	< 0.01 U	< 0.01 U	
Anthracene	ug/L	2.1	GW-3	< 0.01 U	--	< 0.01 U	< 0.01 U	--	< 0.01 U	--	< 0.01 U	--	< 0.01 U	< 0.01 U	< 0.01 U	
Benzo(g,h,i)perylene	ug/L			< 0.02 U	--	< 0.01 U	< 0.02 U	--	< 0.01 U	--	< 0.02 U	--	< 0.02 U	< 0.02 U	< 0.02 U	
Fluoranthene	ug/L	1.8	GW-3	< 0.01 U	--	< 0.01 U	< 0.01 U	--	**0.002 J**	--	< 0.01 U	--	< 0.01 U	< 0.01 U	< 0.01 U	
Fluorene	ug/L	3.7	GW-3	< 0.01 U	--	< 0.01 U	< 0.01 U	--	< 0.01 U	--	< 0.01 U	--	< 0.01 U	< 0.01 U	< 0.01 U	
Naphthalene	ug/L	1.4	GW-2	< 0.1 U	< 1 U	< 0.01 U	< 0.1 U	< 1 U	< 0.01 U	--	< 1 U	< 1 U	< 0.1 U	< 1 U	< 1 U	
Phenanthrene	ug/L			< 0.01 U	--	**0.002 J**	< 0.01 U	--	**0.003 J**	--	< 0.01 U	--	< 0.01 U	< 0.01 U	< 0.01 U	
Pyrene	ug/L	2	GW-3	< 0.01 U	--	< 0.01 U	< 0.01 U	--	< 0.01 U	--	< 0.01 U	--	< 0.01 U	< 0.01 U	< 0.01 U	
Benz(a)anthracene	ug/L	0.00016	GW-2	< 0.01 U	--	< 0.01 U	< 0.01 U	--	< 0.01 U	--	< 0.01 U	--	< 0.01 U	< 0.01 U	< 0.01 U	
Benzo(a)pyrene	ug/L	1.6E-05	GW-2	< 0.01 U	--	< 0.01 U	< 0.01 U	--	< 0.01 U	--	< 0.01 U	--	< 0.01 U	< 0.01 U	< 0.01 U	
Benzo(b)fluoranthene	ug/L	0.00016	GW-2	< 0.01 U	--	< 0.01 U	< 0.01 U	--	< 0.01 U	--	< 0.01 U	--	< 0.01 U	< 0.01 U	< 0.01 U	
Benzo(j)fluoranthene	ug/L			--	--	< 0.01 U	--	--	< 0.01 U	--	--	--	--	--	--	
Benzo(j,k)fluoranthene	ug/L			--	--	--	--	--	--	--	--	--	--	--	--	
Benzo(k)fluoranthene	ug/L	0.0013	GW-2	< 0.01 U	--	< 0.01 U	< 0.01 U	--	< 0.01 U	--	< 0.01 U	--	< 0.01 U	< 0.01 U	< 0.01 U	
Chrysene	ug/L	0.016	GW-2	< 0.01 U	--	< 0.01 U	< 0.01 U	--	< 0.01 U	--	< 0.01 U	--	< 0.01 U	< 0.01 U	< 0.01 U	
Dibenzo(a,h)anthracene	ug/L	1.6E-05	GW-2	< 0.01 U	--	< 0.01 UJ	< 0.01 U	--	< 0.01 UJ	--	< 0.01 U	--	< 0.01 U	< 0.01 U	< 0.01 U	
Indeno(1,2,3-cd)pyrene	ug/L	0.00016	GW-2	< 0.01 U	--	< 0.01 U	< 0.01 U	--	< 0.01 U	--	< 0.01 U	--	< 0.01 U	< 0.01 U	< 0.01 U	
Total Benzofluoranthenes	ug/L			< 0.01 U	--	< 0.01 U	< 0.01 U	--	< 0.01 U	--	< 0.01 U	--	< 0.01 U	< 0.01 U	< 0.01 U	
Total HPAHs (ND = 1/2 RDL)	ug/L			< 0.02 U	--	< 0.01 UJ	< 0.02 U	--	**0.052 J**	--	< 0.02 U	--	< 0.02 U	< 0.02 U	< 0.02 U	
Total LPAHs (ND = 1/2 RDL)	ug/L			< 0.1 U	--	**0.027 J**	< 0.1 U	--	**0.028 J**	--	< 1 U	--	< 0.1 U	< 1 U	< 1 U	
Total cPAHs TEQ (ND = 1/2 RDL)	ug/L	1.6E-05	GW-2	< 0.00755 U	--	< 0.00755 UJ	< 0.00755 U	--	< 0.00755 UJ	--	< 0.00755 U	--	< 0.00755 U	< 0.00755 U	< 0.00755 U	
Semivolatile Organic Compounds (SVOCs)																
1,2-Diphenylhydrazine	ug/L	0.02	GW-2	< 0.1 U	--	--	< 0.1 U	--	--	--	< 0.1 U	--	< 0.1 U	< 0.1 U	< 0.1 U	
2,4,5-Trichlorophenol	ug/L	600	GW-2	< 1 U	--	< 1 U	< 1 U	--	< 1 U	--	< 1 U	--	< 1 U	< 1 U	< 1 U	
2,4,6-Trichlorophenol	ug/L	0.28	GW-2	< 1 U	--	< 1 U	< 1 U	--	< 1 U	--	< 1 U	--	< 1 U	< 1 U	< 1 U	
2,4-Dichlorophenol	ug/L	10	GW-2	< 1 U	--	< 1 U	< 1 U	--	< 1 U	--	< 1 U	--	< 1 U	< 1 U	< 1 U	
2,4-Dimethylphenol	ug/L	2.9	GW-3	< 1 UJ	--	< 1 U	< 1 U	--	< 1 U	--	< 1 U	--	< 1 U	< 1 UJ	< 1 U	
2,4-Dinitrophenol	ug/L	100	GW-2	< 3 U	--	< 2 UJ	< 3 U	--	< 2 UJ	--	< 3 U	--	< 3 U	< 3 U	< 3 U	
2,4-Dinitrotoluene	ug/L	0.18	GW-2	< 0.5 U	--	< 1 U	< 0.5 U	--	< 1 U	--	< 0.5 U	--	< 0.5 U	< 0.5 U	< 0.5 U	
2,6-Dinitrotoluene	ug/L			< 0.5 U	--	< 1 U	< 0.5 U	--	< 1 U	--	< 0.5 U	--	< 0.5 U	< 0.5 U	< 0.5 U	
2-Chloronaphthalene	ug/L	100	GW-2	< 0.1 U	--	< 0.01 U	< 0.1 U	--	< 0.01 U	--	< 0.1 U	--	< 0.1 U	< 0.1 U	< 0.1 U	
2-Chlorophenol	ug/L	17	GW-2	< 1 U	--	< 0.2 U	< 1 U	--	< 0.2 U	--	< 1 U	--	< 1 U	< 1 U	< 1 U	
2-Methylphenol	ug/L	9.8	GW-3	< 1 U	--	< 0.2 U	< 1 U	--	< 0.2 U	--	< 1 U	--	< 1 U	< 1 U	< 1 U	
2-Nitroaniline	ug/L			< 0.5 U	--	< 1 U	< 0.5 U	--	< 1 U	--	< 0.5 U	--	< 0.5 U	< 0.5 U	< 0.5 U	
2-Nitrophenol	ug/L			< 1 U	--	< 1 U	< 1 U	--	< 1 U	--	< 1 U	--	< 1 U	< 1 U	< 1 U	
3 & 4 Methylphenol	ug/L			< 2 U	--	--	< 2 U	--	--	--	< 2 U	--	< 2 U	< 2 U	< 2 U	
3,3'-Dichlorobenzidine	ug/L	0.0033	GW-2	< 1 U	--	< 1 U	< 1 U	--	< 1 U	--	< 1 U	--	< 1 U	< 1 U	< 1 U	
3-Nitroaniline	ug/L			< 10 U	--	< 1 U	< 10 U	--	< 1 U	--	< 10 U	--	< 10 U	< 10 U	< 10 U	
4,6-Dinitro-2-methylphenol	ug/L	7	GW-2	< 3 U	--	< 2 U	< 3 U	--	< 2 U	--	< 3 U	--	< 3 U	< 3 U	< 3 U	
4-Bromophenyl phenyl ether	ug/L			< 0.1 U	--	< 0.2 U	< 0.1 U	--	< 0.2 U	--	< 0.1 U	--	< 0.1 U	< 0.1 U	< 0.1 U	
4-Chloro-3-methylphenol	ug/L	36	GW-2	< 1 U	--	< 1 U	< 1 U	--	< 1 U	--	< 1 U	--	< 1 U	< 1 U	< 1 U	
4-Chloroaniline	ug/L			< 10 U	--	< 1 UJ	< 10 U	--	--	--	< 10 U	--	< 10 U	< 10 U	< 10 U	
4-Chlorophenyl phenyl ether	ug/L			< 0.1 U	--	< 0.2 U	< 0.1 U	--	< 0.2 U	--	< 0.1 U	--	< 0.1 U	< 0.1 U	< 0.1 U	
4-Methylphenol	ug/L	110	GW-3	--	--	< 0.2 U	--	--	< 0.2 U	--	--	--	--	--	--	
4-Nitroaniline	ug/L			< 10 U	--	< 1 U	< 10 U	--	< 1 U	--	< 10 U	--	< 10 U	< 10 U	< 10 U	
4-Nitrophenol	ug/L			< 3 U	--	< 1 U	< 3 U	--	< 1 U	--	< 3 U	--	< 3 U	< 3 U	< 3 U	
Benzoic acid	ug/L	590	GW-3	< 5 U	--	< 2 U	< 5 U	--	< 2 U	--	< 5 U	--	< 5 U	< 5 U	< 5 U	
Benzyl alcohol	ug/L	56	GW-3	< 1 U	--	< 0.2 U	< 1 U	--	< 0.2 U	--	< 1 U	--	< 1 U	< 1 U	< 1 U	
Benzyl butyl phthalate	ug/L	0.013	GW-2	< 1 U	--	< 0.2 U	< 1 U	--	< 0.2 U	--	< 1 U	--	< 1 U	< 1 U	< 1 U	
Bis(2-chloro-1-methylethyl) ether	ug/L	100	GW-2	< 0.1 U	--	< 0.2 U	< 0.1 U	--	< 0.2 U	--	< 0.1 U	--	< 0.1 U	< 0.1 U	< 0.1 U	
Bis(2-chloroethoxy)methane	ug/L			< 0.1 U	--	< 0.2 U	< 0.1 U	--	< 0.2 U	--	< 0.1 U	--	< 0.1 U	< 0.1 U	< 0.1 U	
Bis(2-chloroethyl) ether	ug/L	0.06	GW-2	< 0.1 U	--	< 0.2 U	< 0.1 U	--	< 0.2 U	--	< 0.1 U	--	< 0.1 U	< 0.1 U	< 0.1 U	
Bis(2-ethylhexyl) phthalate	ug/L	0.046	GW-2	< 1.6 U	--	< 0.2 U	< 1.6 U	--	< 0.2 U	--	< 1.6 U	--	< 1.6 U	< 1.6 U	< 1.6 U	
Carbazole	ug/L			< 0.1 U	--	< 0.01 U	< 0.1 U	--	< 0.01 U	--	< 0.1 U	--	< 0.01 U	< 0.1 U	< 0.01 U	
Dibenzofuran	ug/L	3.1	GW-3	< 0.1 U	--	**0.002 J**	< 0.1 U	--	**0.002 J**	--	< 0.1 U	--	< 0.01 U	< 0.1 U	< 0.01 U	
Diethyl phthalate	ug/L	93	GW-3	< 1 U	--	**0.07 J**	< 1 U	--	< 0.2 U	--	< 1 U	--	< 1 U	< 1 U	< 1 U	
Dimethyl phthalate	ug/L	59	GW-3	< 1 U	--	< 0.2 U	< 1 U	--	< 0.2 U	--	< 1 U	--	< 1 U	< 1 U	< 1 U	
Di-n-butyl phthalate	ug/L	8	GW-2	< 1 U	--	< 0.2 U	< 1 U	--	< 0.2 U	--	< 1 U	--	< 1 U	< 1 U	< 1 U	
Di-n-octyl phthalate	ug/L	2.3	GW-3	< 1 U	--	< 0.2 U	< 1 U	--	< 0.2 U	--	< 1 U	--	< 1 U	< 1 U	< 1 U	
Hexachlorobenzene	ug/L	5E-06	GW-2	< 0.1 U	--	< 0.2 U	< 0.1 U	--	< 0.0013 U	--	< 0.1 U	--	< 0.1 U	< 0.1 U	< 0.1 U	
Hexachlorobutadiene	ug/L	0.01	GW-2	< 0.1 U	< 0.5 U	< 0.2 U	< 0.1 U	< 0.5 U	< 0.0013 U	--	< 0.5 U	< 0.5 U	< 0.1 U	< 0.5 U	< 0.1 U	
Hexachlorocyclopentadiene	ug/L	1	GW-2	< 0.3 U	--	< 1 UJ	< 0.3 U	--	< 1 UJ	--	< 0.3 U	--	< 0.3 U	< 0.3 U	< 0.3 U	
Hexachloroethane	ug/L	0.02	GW-2	< 0.1 U	--	< 0.2 U	< 0.1 U	--	< 0.2 U	--	< 0.1 U	--	< 0.1 U	< 0.1 U	< 0.1 U	
Isophorone	ug/L	110	GW-2	< 0.1 U	--	< 0.2 U	< 0.1 U	--	< 0.2 U	--	< 0.1 U	--	< 0.1 U	< 0.1 U	< 0.1 U	
Nitrobenzene	ug/L	100	GW-2	< 0.1 U	--	< 0.2 U	< 0.1 U	--	< 0.2 U	--	< 0.1 U	--	< 0.1 U	< 0.1 U	< 0.1 U	
N-Nitrosodimethylamine	ug/L	0.34	GW-2	< 0.1 U	--	--	< 0.1 U	--	--	--	< 0.1 U	--	< 0.1 U	< 0.1 U	< 0.1 U	
N-Nitroso-di-n-propylamine	ug/L	0.058	GW-2	< 0.1 U	--	< 0.2 U	< 0.1 U	--	< 0.2 U	--	< 0.1 U	--	< 0.1 U	< 0.1 U	< 0.1 U	
N-Nitrosodiphenylamine	ug/L	0.55	GW-3	< 0.1 U	--	< 0.2 U	< 0.1 U	--	< 0.2 U	--	< 0.1 U	--	< 0.1 U	< 0.1 U	< 0.1 U	
Pentachlorophenol	ug/L	0.002	GW-2	< 0.5 U	--	< 1 U	< 0.5 U	--	< 1 U	--	< 0.5 U	--	< 0.5 U	< 0.5 U	< 0.5 U	
Perylene	ug/L			--	--	< 0.01 U	--	--	< 0.01 U	--	--	--	--	--	--	
Phenol	ug/L	100	GW-3	< 1 U	--	< 0.2 U	< 1 U	--	< 0.2 U	--	< 1 U	--	< 1 U	< 1 U	< 1 U	

Table I.3.A. Groundwater Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL.

				Location	MW-13D		MW-14			MW-15				MW-16	MW-16D	
				Date	10/26/22	03/24/23	03/31/21	10/24/22	03/22/23	03/30/21	05/27/21	10/24/22	03/22/23	03/24/23	10/26/22	03/23/23
				Sample	MW-13D-221026	MW-13D-230324	MW-14-210331	MW-14-221024	MW-14-230322	MW-15-210330	MW-15-210527	MW-15-221024	MW-15-230322	MW-16-230324	MW-16D-221026	MW-16D-230323
				Hydrostatigraphic Unit	Alluvial	Alluvial	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Alluvial	Alluvial
				Tidal Stage	Higher-High	Lower-Low	Lower-Low	Higher-High	Lower-Low	Lower-Low	Lower-Low	Higher-High	Lower-Low	Higher-High	Higher-High	Lower-Low
				Tidal Trend	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing
Analyte	Unit	Preliminary RI SL	Basis of SL													
Pesticides																
2,4'-DDD	ug/L			--	--	--	--	--	< 0.0013 U	--	--	--	--	--	--	
2,4'-DDE	ug/L			--	--	--	--	--	< 0.0013 U	--	--	--	--	--	--	
2,4'-DDT	ug/L			--	--	--	--	--	< 0.0013 U	--	--	--	--	--	--	
4,4'-DDD	ug/L	7.9E-06	GW-2	< 0.00125 U	--	--	< 0.00125 U	--	< 0.0013 U	--	< 0.00125 U	--	< 0.00125 U	< 0.00125 U	< 0.00125 U	--
4,4'-DDE	ug/L	8.8E-07	GW-2	< 0.00125 U	--	--	< 0.00125 U	--	< 0.0013 U	--	< 0.00125 U	--	< 0.00125 U	< 0.00125 U	< 0.00125 U	--
4,4'-DDT	ug/L	1.2E-06	GW-2	< 0.00125 U	--	--	< 0.00125 U	--	< 0.0013 U	--	< 0.00125 U	--	< 0.00125 U	< 0.00125 U	< 0.00125 U	--
Aldrin	ug/L	4.1E-08	GW-2	< 0.000625 U	--	--	< 0.000625 U	--	< 0.0006 U	--	< 0.000625 U	--	< 0.000625 U	< 0.000625 U	< 0.000625 U	--
Alpha-BHC	ug/L	4.8E-05	GW-2	< 0.000625 U	--	--	< 0.000625 U	--	**0.0038**	--	< 0.000625 U	--	< 0.000625 U	< 0.000625 U	< 0.000625 U	--
Beta-BHC	ug/L	0.0014	GW-2	< 0.000625 U	--	--	< 0.000625 U	--	< 0.0006 U	--	< 0.000625 U	--	< 0.000625 U	< 0.000625 U	< 0.000625 U	--
Chlordane	ug/L	2.2E-05	GW-2	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-Chlordane	ug/L	7.8E-05	GW-3	< 0.000625 U	--	--	< 0.000625 U	--	< 0.0006 U	--	< 0.000625 U	--	< 0.0007 U	< 0.000625 U	< 0.000625 U	--
cis-Nonachlor	ug/L			--	--	--	--	--	< 0.0013 U	--	--	--	--	--	--	--
Delta-BHC	ug/L			< 0.000625 U	--	--	< 0.000625 U	--	< 0.0006 U	--	< 0.000625 U	--	< 0.000625 U	< 0.000625 U	< 0.000625 U	--
Dieldrin	ug/L	7E-08	GW-2	< 0.00125 U	--	--	< 0.00125 U	--	< 0.0013 U	--	< 0.00125 U	--	**0.0043**	**0.01**	< 0.000625 U	--
Endosulfan I	ug/L	0.0087	GW-2	< 0.000625 U	--	--	< 0.000625 U	--	< 0.0006 U	--	< 0.000625 U	--	< 0.000625 U	< 0.000625 U	< 0.000625 U	--
Endosulfan II	ug/L	0.0087	GW-2	< 0.00125 U	--	--	< 0.00125 U	--	< 0.0013 U	--	< 0.00125 U	--	< 0.00125 U	< 0.00125 U	< 0.00125 U	--
Endosulfan Sulfate	ug/L	10	GW-2	< 0.00125 U	--	--	< 0.00125 U	--	< 0.0013 UJ	--	< 0.00125 U	--	< 0.00125 U	< 0.00125 U	< 0.00125 U	--
Endrin	ug/L	0.002	GW-2	< 0.00125 U	--	--	< 0.00125 U	--	< 0.0013 U	--	< 0.00125 U	--	< 0.00125 U	< 0.00125 U	< 0.00125 U	--
Endrin Aldehyde	ug/L	0.035	GW-2	< 0.00125 U	--	--	< 0.00125 U	--	< 0.0013 UJ	--	< 0.00125 U	--	< 0.00125 U	< 0.00125 U	< 0.00125 U	--
Endrin ketone	ug/L			< 0.00125 U	--	--	< 0.00125 U	--	< 0.0013 UJ	--	< 0.00125 U	--	< 0.00125 U	< 0.00125 U	< 0.00125 U	--
Heptachlor	ug/L	3.4E-07	GW-2	< 0.000625 U	--	--	< 0.000625 U	--	< 0.0006 U	--	< 0.000625 U	--	< 0.000625 U	< 0.000625 U	< 0.000625 U	--
Heptachlor Epoxide	ug/L	2.4E-06	GW-2	< 0.000625 U	--	--	< 0.000625 U	--	< 0.0006 U	--	< 0.000625 U	--	< 0.0008 U	< 0.000625 U	< 0.000625 U	--
Lindane	ug/L	0.13	GW-2	< 0.000625 U	--	--	< 0.000625 U	--	< 0.0006 U	--	< 0.000625 U	--	< 0.00076 U	< 0.000625 U	< 0.000625 U	--
Methoxychlor	ug/L	0.02	GW-2	< 0.00625 U	--	--	< 0.00625 U	--	< 0.0063 U	--	< 0.00625 U	--	< 0.00625 U	< 0.00625 U	< 0.00625 U	--
Mirex	ug/L	0.001	GW-2	--	--	--	--	--	< 0.0013 U	--	--	--	--	--	--	--
Oxychlordane	ug/L			--	--	--	--	--	< 0.0013 U	--	--	--	--	--	--	--
Toxaphene	ug/L	3.2E-05	GW-2	< 0.0625 U	--	--	< 0.0625 U	--	--	--	< 0.0625 U	--	< 0.0625 U	< 0.0625 U	< 0.0625 U	--
trans-Chlordane	ug/L	7.8E-05	GW-3	< 0.000625 U	--	--	< 0.000625 U	--	< 0.0006 U	--	< 0.000625 U	--	< 0.000625 U	< 0.000625 U	< 0.000625 U	--
trans-Nonachlor	ug/L			--	--	--	--	--	< 0.0013 U	--	--	--	--	--	--	--
Total Petroleum Hydrocarbons (TPH)																
Gasoline-Range Organics	ug/L	800	GW-2	**470 J**	**120 J**	< 100 UJ	< 100 U	--	< 100 U	--	< 100 U	--	< 100 U	< 100 U	< 100 U	< 100 U
Diesel-Range Organics	ug/L	500	GW-2	**380**	< 50 U	< 100 U	< 50 U	--	< 100 U	--	< 50 U	--	**95**	**140**	**100**	
Motor Oil-Range Organics	ug/L	500	GW-2	**380**	< 250 U	< 200 U	< 250 U	--	< 200 U	--	< 250 U	--	< 250 U	< 250 U	< 250 U	
Diesel and Oil Extended-Range Organics	ug/L	500	GW-2	**760**	< 250 U	< 200 U	< 250 U	--	< 200 U	--	< 250 U	--	**95**	**140**	**100**	
Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)																
Benzene	ug/L	1.6	GW-2	**9.1**	**4.2**	< 0.2 U	< 0.35 U	< 0.35 U	< 0.2 U	--	< 0.35 U	< 0.35 U	< 0.35 U	< 0.35 U	< 0.35 U	
Toluene	ug/L	100	GW-2	< 1 U	< 1 U	< 0.2 U	< 1 U	< 1 U	< 0.2 U	--	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
Ethylbenzene	ug/L	21	GW-2	< 1 U	< 1 U	< 0.2 U	< 1 U	< 1 U	< 0.2 U	--	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
Total Xylenes	ug/L	110	GW-2	< 2 U	< 2 U	< 0.6 U	< 2 U	< 2 U	< 0.6 U	--	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	
Volatile Organic Compounds (VOCs)																
1,1,1,2-Tetrachloroethane	ug/L	7.1	GW-4	< 1 U	< 1 U	< 0.2 U	< 1 U	< 1 U	< 0.2 U	--	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
1,1,1-Trichloroethane	ug/L	5400	GW-4	< 1 U	< 1 U	< 0.2 U	< 1 U	< 1 U	< 0.2 U	--	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
1,1,2 - Trichlorotrifluoroethane	ug/L	170	GW-4	--	--	< 0.2 U	--	--	< 0.2 U	--	--	--	--	--	--	
1,1,2,2-Tetrachloroethane	ug/L	0.3	GW-2	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	--	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	
1,1,2-Trichloroethane	ug/L	0.9	GW-2	< 0.5 U	< 0.5 U	< 0.2 U	< 0.5 U	< 0.5 U	< 0.2 U	--	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	
1,1-Dichloroethane	ug/L	11	GW-4	< 1 U	< 1 U	< 0.2 U	< 1 U	< 1 U	< 0.2 U	--	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
1,1-Dichloroethene	ug/L	130	GW-4	**1.1**	< 1 U	< 0.2 U	< 1 U	< 1 U	< 0.2 U	--	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
1,1-Dichloropropene	ug/L			< 1 U	< 1 U	< 0.2 U	< 1 U	< 1 U	< 0.2 U	--	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
1,2,3-Trichlorobenzene	ug/L			< 1 U	< 1 U	< 0.5 U	< 1 U	< 1 U	< 0.5 U	--	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
1,2,3-Trichloropropane	ug/L	20	GW-4	< 1 U	< 1 U	< 0.5 U	< 1 U	< 1 U	< 0.5 U	--	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
1,2,4-Trichlorobenzene	ug/L	0.037	GW-2	< 1 U	< 1 U	< 0.2 U	< 0.1 U	< 1 U	< 0.2 U	--	< 1 U	< 1 U	< 0.1 U	< 1 U	< 0.1 U	
1,2,4-Trimethylbenzene	ug/L	240	GW-4	< 1 U	< 1 U	< 0.2 U	< 1 U	< 1 U	< 0.2 U	--	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
1,2-Dibromo-3-chloropropane	ug/L	0.042	GW-4	< 10 U	< 10 U	< 0.5 U	< 10 U	< 10 U	< 0.5 U	--	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	
1,2-Dibromoethane (EDB)	ug/L	0.3	GW-4	< 1 U	< 1 U	< 0.2 U	< 1 U	< 1 U	< 0.2 U	--	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
1,2-Dichlorobenzene	ug/L	4.5	GW-3	< 0.1 U	< 1 U	< 0.2 U	< 0.1 U	< 1 U	< 0.2 U	--	< 1 U	< 1 U	< 0.1 U	< 1 U	< 1 U	
1,2-Dichloroethane (EDC)	ug/L	3.5	GW-4	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	--	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	
1,2-Dichloropropane	ug/L	3.1	GW-2	< 1 U	< 1 U	< 0.2 U	< 1 U	< 1 U	< 0.2 U	--	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
1,3,5-Trimethylbenzene	ug/L	170	GW-4	< 1 U	< 1 U	< 0.2 U	< 1 U	< 1 U	< 0.2 U	--	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
1,3-Dichlorobenzene	ug/L	2	GW-2	< 1 U	< 1 U	< 0.2 U	< 0.1 U	< 1 U	< 0.2 U	--	< 1 U	< 1 U	< 0.1 U	< 0.1 U	< 0.1 U	
1,3-Dichloropropane	ug/L	1.2	GW-2	< 1 U	< 1 U	< 0.2 U	< 1 U	< 1 U	< 0.2 U	--	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
1,4-Dichloro-2-Butene	ug/L			--	--	< 1 UJ	--	--	< 1 U	--	--	--	--	--	--	
1,4-Dichlorobenzene	ug/L	5	GW-4	< 1 U	< 1 U	< 0.2 U	< 0.1 U	< 1 U	< 0.2 U	--	< 1 U	< 1 U	< 1 U	< 1 U	< 0.1 U	
2,2-Dichloropropane	ug/L			< 1 U	< 1 U	< 0.2 U	< 1 U	< 1 U	< 0.2 U	--	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
2-Butanone	ug/L	1700000	GW-4	< 20 U	< 20 U	< 5 U	< 20 U	< 20 U	< 5 U	--	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	
2-Chlorotoluene	ug/L			< 1 U	< 1 U	< 0.2 U	< 1 U	< 1 U	< 0.2 U	--	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
2-Hexanone	ug/L	7300	GW-4	< 10 U	< 10 U	< 5 U	< 10 U	< 10 U	< 5 U	--	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	
2-Pentanone	ug/L			--	--	< 5 UJ	--	--	< 5 U	--	--	--	--	--	--	
4-Chlorotoluene	ug/L			< 1 U	< 1 U	< 0.2 U	< 1 U	< 1 U	< 0.2 U	--	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
4-Methyl-2-pentanone	ug/L	470000	GW-4	< 10 U	< 10 U	< 5 U	< 10 U	< 10 U	< 5 U	--	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	
Acetone	ug/L			< 50 U	< 50 U	**5.6 J**	< 50 U	< 50 U	< 5 U	--	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	
Acrolein	ug/L	1.1	GW-2	--	--	< 5 U	--	--	< 5 U	--	--	--	--	--	--	
Acrylonitrile	ug/L	0.028	GW-2	--	--	< 1 U	--	--	< 1 U	--	--	--	--	--	--	
Bromobenzene	ug/L	630	GW-4	< 1 U	< 1 U	< 0.2 U	< 1 U	< 1 U	< 0.2 U	--	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
Bromochloromethane	ug/L			--	--	< 0.2 U	--	--	< 0.2 U	--	--	--	--	--	--	
Bromodichloromethane	ug/L	1.4	GW-4	< 0.5 U	< 0.5 U	< 0.2 U	< 0.5 U	< 0.5 U	< 0.2 U	--	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	
Bromoform	ug/L	12	GW-2	< 5 U	< 5 U	< 0.2 UJ	< 5 U	< 5 U	< 0.2 U	--	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	
Bromomethane	ug/L	11	GW-4	< 5 U	< 5 U	< 1 U	< 5 U	< 5 U	< 1 U	--	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	
Carbon Disulfide	ug/L	840	GW-4	--	--	< 0.2 U	--	--	< 0.2 U	--	--	--	--	--	--	
Carbon Tetrachloride	ug/L	0.35	GW-2	< 0.5 U	< 0.5 U	< 0.2 U	< 0.5 U	< 0.5 U	< 0.2 U	--	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	
Chlorobenzene	ug/L	200	GW-2	< 1 U	< 1 U	< 0.2 U	< 1 U	< 1 U	< 0.2 U	--	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
Chloroethane	ug/L	15000	GW-4	< 1 U	< 1 U	< 0.2 U	< 1 U	< 1 U	< 0.2 U	--	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
Chloroform	ug/L	1.2	GW-4	< 1 U	< 1 U	< 0.2 U	< 1 U	< 1 U	< 0.2 U	--	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
Chloromethane	ug/L	150	GW-4	< 10 U	< 10 U	< 0.5 U	< 10 U	< 10 U	< 0.5 U	--	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	
cis-1,2-Dichloroethene (DCE)	ug/L	180	GW-4	**150**	**38**	< 0.2 U	< 1 U	< 1 U	< 0.2 U	--	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
cis-1,3-Dichloropropene	ug/L	1.2	GW-2	< 0.4 U	< 0.4 U	< 0.2 U	< 0.4 U	< 0.4 U	< 0.2 U	--	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	
Dibromochloromethane	ug/L	2.2	GW-2	< 0.5 U	< 0.5 U	< 0.2 U	< 0.5 U	< 0.5 U	< 0.2 U	--	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	
Dibromomethane	ug/L	97	GW-4	< 1 U	< 1 U	< 0.2 U	< 1 U	< 1 U	< 0.2 U	--	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
Dichlorodifluoromethane	ug/L	4.2	GW-4	< 1 U	< 1 U	< 0.2 U	< 1 U	< 1 U	< 0.2 U	--	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
Isopropylbenzene	ug/L	910	GW-4	< 1 U	< 1 U	< 0.2 U	< 1 U	< 1 U	< 0.2 U	--	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
m,p-Xylenes	ug/L			< 2 U	< 2 U	< 0.4 U	< 2 U	< 2 U	< 0.4 U	--	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	
Methyl tert-butyl ether (MTBE)	ug/L	860	GW-4	< 1 U	< 1 U	< 0.5 U	< 1 U	< 1 U	< 0.5 U	--	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
Methylene Chloride	ug/L	100	GW-2	**7.9 J**	< 5 U	< 1 U	**6.8 J**	< 5 U	< 1 U	--	**8.8 J**	< 5 U	< 5 U	**6 J**	< 5 U	
Methyliodide	ug/L			--	--	< 1 U	--	--	< 1 U	--	--	--	--	--	--	
n-Butylbenzene	ug/L			--	--	< 0.2 U	--	--	< 0.2 U	--	--	--	--	--	--	
n-Hexane	ug/L	7.2	GW-4	< 5 U	< 5 U	--	< 5 U	< 5 U	--	--	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	
n-Propylbenzene	ug/L	2300	GW-4	< 1 U	< 1 U	< 0.2 U	< 1 U	< 1 U	< 0.2 U	--	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
o-Xylene	ug/L			< 1 U	< 1 U	< 0.2 U	< 1 U	< 1 U	< 0.2 U	--	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
p-Isopropyltoluene	ug/L	88	GW-4	< 1 U	< 1 U	< 0.2 U	< 1 U	< 1 U	< 0.2 U	--	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
sec-Butylbenzene	ug/L			< 1 U	< 1 U	< 0.2 U	< 1 U	< 1 U	< 0.2 U	--	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
Styrene	ug/L	8500	GW-4	< 1 U	< 1 U	< 0.2 U	< 1 U	< 1 U	< 0.2 U	--	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
tert-Butylbenzene	ug/L			< 1 U	< 1 U	< 0.2 U	< 1 U	< 1 U	< 0.2 U	--	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
Tetrachloroethene (PCE)	ug/L	2.9	GW-2	**450**	**18**	**0.32**	< 1 U	< 1 U	< 0.2 U	--	**1.2**	< 1 U	**2.6**	< 1 U	**1**	
trans-1,2-Dichloroethene	ug/L	77	GW-4	**1.2**	< 1 U	< 0.2 U	< 1 U	< 1 U	< 0.2 U	--	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
trans-1,3-Dichloropropene	ug/L	1.2	GW-2	< 0.4 U	< 0.4 U	< 0.2 U	< 0.4 U	< 0.4 U	< 0.2 U	--	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	
Trichloroethene (TCE)	ug/L	0.7	GW-2	**42**	**20**	< 0.2 U	< 0.5 U	< 0.5 U	< 0.2 U	--	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	
Trichlorofluoromethane	ug/L	120	GW-4	< 1 U	< 1 U	< 0.2 U	< 1 U	< 1 U	< 0.2 U	--	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
Vinyl Acetate	ug/L	8100	GW-4	--	--	< 0.2 U	--	--	< 0.2 U	--	--	--	--	--	--	
Vinyl Chloride	ug/L	0.18	GW-2	**9.9**	**12**	< 0.2 U	< 0.02 U	< 0.02 U	< 0.2 U	--	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	
Conventionals																
Total Organic Carbon	ug/L			--	--	**890**	--	--	**2190**	--	--	--	--	--	--	
Total Suspended Solids	mg/L			**12**	**14**	< 1 U	< 5 U	--	**6**	--	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	
Field Parameters																
Temperature	deg C			--	**12.4**	**11.6**	**13.6**	**11.4**	**11.8**	**13.4**	**15.3**	**13.1**	**10.1**	**14.3**	**11.6**	
Specific Conductance	uS/cm			**1090**	**615**	**122**	**227**	**116**	**183**	**236**	**194**	**168**	**176**	**667**	**427**	
Dissolved Oxygen	mg/L			**0.09**	**0.18**	**5.39**	**2.86**	**7.14**	**0.63**	**3.04**	**3.84**	**2.11**	**7.16**	**1.4**	**7.85**	
pH	pH units			**6.87**	**7.05**	**6.03**	**5.91**	**6.28**	**6.88**	**6.4**	**6.57**	**6.59**	**5.57**	**6.05**	**6.26**	
Oxidation Reduction Potential	mV			**-54.3**	**-106**	**67.2**	**78.4**	**158**	**57.9**	**62.2**	**-65.9**	**164**	**194**	**167**	**148**	
Turbidity	NTU			**14.2**	**8.26**	**11.8**	**0.05**	**2.2**	**11.8**	**3.15**	**7.57**	**1.97**	**1.56**	**0.65**	**4.92**	

Table I.3.A. Groundwater Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL.

Location				MW-17	MW-18D	MW-19		MW-19D		MW-20		MW-22	SB-21	SB-22
Date				10/27/22	10/31/22	10/27/22	03/24/23	10/27/22	03/23/23	10/31/22	03/24/23	10/24/22	07/27/11	07/27/11
Sample				MW-17-221027	MW-18D-221031	MW-19-221027	MW-19-230324	MW-19D-221027	MW-19D-230323	MW-20-221031	MW-20-230324	MW-22-221024	SB21-WATER-072711	SB22-WATER-072711
Hydrostatigraphic Unit				Alluvial	Alluvial	Fill	Fill	Alluvial	Alluvial	Alluvial	Alluvial	Fill	--	--
Tidal Stage				Higher-High	Higher-High	Higher-High	Lower-Low	Higher-High	Lower-Low	Higher-Low	Higher-High	Higher-Low	--	--
Tidal Trend				Outgoing	Outgoing	Outgoing	Incoming	Outgoing	Incoming	Outgoing	Outgoing	Outgoing	--	--
Analyte	Unit	Preliminary RI SL	Basis of SL											
Metals, Total														
Arsenic	ug/L	8	GW-5	< 0.5 U	< 0.5 U	**1.78**	**1.06**	**0.774**	**0.573**	**0.837**	--	**1.25**	< 3.3 U	< 3.3 U
Barium	ug/L	200	GW-2	--	--	--	--	--	--	--	--	--	**47**	< 28 U
Cadmium	ug/L	1.2	GW-3	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	--	< 0.2 U	< 4.4 U	< 4.4 U
Chromium	ug/L	27	GW-2	< 0.5 U	< 0.5 U	**0.84**	< 1.11 UJ	< 0.5 U	< 0.5 U	< 0.5 U	--	**0.728**	< 11 U	< 11 U
Copper	ug/L	3.1	GW-2	**3.32**	**3.19**	**4.21**	**3.1 J**	**1.27**	**2.35 J**	**2.72**	--	**4.39**	--	--
Lead	ug/L	8.1	GW-2	< 0.2 U	< 0.2 U	**0.754**	**1.01**	< 0.2 U	< 0.2 U	< 0.2 U	--	**0.528**	< 1.1 U	< 1.1 U
Mercury	ug/L	0.025	GW-2	< 0.0008 U	**0.0012 J**	**0.0042**	--	< 0.0008 U	--	**0.0015 J**	--	**0.0022**	< 0.5 U	< 0.5 U
Nickel	ug/L	8.2	GW-2	**3.99**	**3.4**	**1.34**	**1.34**	**2.22**	**3.59**	**1.6**	--	**3.63**	--	--
Selenium	ug/L	71	GW-2	--	--	--	--	--	--	--	--	--	< 5.6 U	< 5.6 U
Silver	ug/L	0.91	GW-2	--	--	--	--	--	--	--	--	--	< 11 U	< 11 U
Zinc	ug/L	81	GW-2	**2.04**	**1.96**	**2.42**	**2.18**	**1.28**	**0.967**	**0.888 J**	--	**9.17**	--	--
Metals, Dissolved														
Arsenic	ug/L	8	GW-5	**0.516**	< 0.5 U	**1.67**	**1.01**	**0.71**	< 0.5 U	**0.784**	--	**1.09**	--	--
Cadmium	ug/L	1.2	GW-3	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	--	< 0.2 U	--	--
Chromium	ug/L	27	GW-2	< 0.5 U	**0.934**	**0.842**	< 0.5 U	< 0.5 U	< 0.5 U	**1.73**	--	**3.46**	--	--
Copper	ug/L	3.1	GW-2	**3.23**	**3.32**	**3.05**	**3.03**	**5.91**	**2.2**	**2.76**	--	**3.84**	--	--
Lead	ug/L	8.1	GW-2	< 0.2 U	< 0.2 U	< 0.2 U	**0.964**	**0.217**	< 0.2 U	< 0.2 U	--	< 0.2 U	--	--
Mercury	ug/L	0.025	GW-2	**0.00083**	**0.0011**	**0.0008**	--	< 0.0008 U	--	**0.0013**	--	**0.0016**	--	--
Nickel	ug/L	8.2	GW-2	**3.67**	**3.44**	**1.21**	**1.25**	**2.15**	**3.58**	**2.01**	--	**4.25**	--	--
Silver	ug/L	0.91	GW-2	--	--	--	--	--	--	--	--	--	--	--
Zinc	ug/L	81	GW-2	**2.09**	**2.63**	**1.09**	**1.98**	**4.79**	**0.911**	**1.24**	--	**7.59**	--	--
Metals, Total, Prepared Using Reductive Precipitation														
Arsenic	ug/L	8	GW-5	--	--	--	--	--	--	--	--	--	--	--
Cadmium	ug/L	1.2	GW-3	--	--	--	--	--	--	--	--	--	--	--
Chromium	ug/L	27	GW-2	--	--	--	--	--	--	--	--	--	--	--
Copper	ug/L	3.1	GW-2	--	--	--	--	--	--	--	--	--	--	--
Lead	ug/L	8.1	GW-2	--	--	--	--	--	--	--	--	--	--	--
Nickel	ug/L	8.2	GW-2	--	--	--	--	--	--	--	--	--	--	--
Zinc	ug/L	81	GW-2	--	--	--	--	--	--	--	--	--	--	--
Metals, Dissolved, Prepared Using Reductive Precipitation														
Arsenic	ug/L	8	GW-5	--	--	--	--	--	--	--	--	--	--	--
Cadmium	ug/L	1.2	GW-3	--	--	--	--	--	--	--	--	--	--	--
Chromium	ug/L	27	GW-2	--	--	--	--	--	--	--	--	--	--	--
Copper	ug/L	3.1	GW-2	--	--	--	--	--	--	--	--	--	--	--
Lead	ug/L	8.1	GW-2	--	--	--	--	--	--	--	--	--	--	--
Nickel	ug/L	8.2	GW-2	--	--	--	--	--	--	--	--	--	--	--
Zinc	ug/L	81	GW-2	--	--	--	--	--	--	--	--	--	--	--
Butyl Tins														
Dibutyltin Ion	ug/L			**0.036**	< 0.0077 U	< 0.0077 U	--	< 0.0077 U	--	< 0.0077 U	--	< 0.0077 U	--	--
Monobutyltin	ug/L			**0.291**	**0.0078**	**0.0087**	--	**0.0074**	--	**0.0349**	--	**0.0115**	--	--
Tetrabutyltin	ug/L			< 0.03 U	< 0.03 U	< 0.03 U	--	< 0.03 U	--	< 0.03 U	--	< 0.03 U	--	--
Tributyltin Ion	ug/L	4.3E-06	GW-3	< 0.0052 U	< 0.0052 U	< 0.0052 U	--	< 0.0052 U	--	< 0.0052 U	--	< 0.0052 U	--	--
Polychlorinated Biphenyl (PCB) Aroclors														
Total PCB Aroclors (ND = 0)	ug/L	7.0E-06	GW-2	< 0.0035 U	< 0.0035 U	< 0.0035 U	--	< 0.0035 U	--	< 0.0035 U	--	< 0.0035 U	**0.059 A**	**0.1 A**
Polychlorinated Biphenyl (PCB) Congeners														
Total PCB Congeners (ND = 0)	ug/L	7.0E-06	GW-2	--	--	--	--	--	--	--	--	--	--	--
Total PCB TEQ (ND = 0)	ug/L	4.4E-09	GW-2	--	--	--	--	--	--	--	--	--	--	--
Dioxins/Furans														
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	ug/L	5.1E-09	GW-2	--	--	--	< 1.41E-06 U	--	--	--	--	--	--	--
2,3,7,8-TCDD	ug/L	5.1E-09	GW-2	--	--	--	< 5.71E-07 U	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)														
1-Methylnaphthalene	ug/L	0.17	GW-4	< 0.1 U	< 0.1 U	< 0.1 U	--	< 0.1 U	--	< 0.1 U	--	< 0.1 U	< 0.1 U	< 0.1 U
2-Methylnaphthalene	ug/L	14	GW-3	< 0.1 U	< 0.1 U	< 0.1 U	--	< 0.1 U	--	< 0.1 U	--	< 0.1 U	--	--
Acenaphthene	ug/L	5.3	GW-3	< 0.01 U	< 0.01 U	< 0.01 U	--	< 0.01 U	--	< 0.01 U	--	< 0.01 U	< 0.1 U	< 0.1 U
Acenaphthylene	ug/L			< 0.01 U	< 0.01 U	< 0.01 U	--	< 0.01 U	--	< 0.01 U	--	< 0.01 U	< 0.1 U	< 0.1 U
Anthracene	ug/L	2.1	GW-3	< 0.01 U	< 0.01 U	< 0.01 U	--	< 0.01 U	--	< 0.01 U	--	< 0.01 U	< 0.1 U	< 0.1 U
Benzo(g,h,i)perylene	ug/L			< 0.02 U	< 0.02 U	< 0.02 U	--	< 0.02 U	--	< 0.02 U	--	< 0.02 U	< 0.01 U	< 0.01 U
Fluoranthene	ug/L	1.8	GW-3	< 0.01 U	< 0.01 U	< 0.01 U	--	< 0.01 U	--	< 0.01 U	--	< 0.01 U	< 0.1 U	< 0.1 U
Fluorene	ug/L	3.7	GW-3	< 0.01 U	< 0.01 U	< 0.01 U	--	< 0.01 U	--	< 0.01 U	--	< 0.01 U	< 0.1 U	< 0.1 U
Naphthalene	ug/L	1.4	GW-2	< 0.1 U	< 0.1 U	< 0.1 U	< 1 U	< 1 UJ	< 1 U	< 0.1 U	< 10 U	< 0.1 U	< 0.1 U	< 0.1 U
Phenanthrene	ug/L			< 0.01 U	< 0.01 U	< 0.01 U	--	< 0.01 U	--	< 0.01 U	--	< 0.01 U	< 0.1 U	< 0.1 U
Pyrene	ug/L	2	GW-3	< 0.01 U	< 0.01 U	< 0.01 U	--	< 0.01 U	--	< 0.01 U	--	< 0.01 U	< 0.1 U	< 0.1 U
Benz(a)anthracene	ug/L	0.00016	GW-2	< 0.01 U	< 0.01 U	< 0.01 U	--	< 0.01 U	--	< 0.01 U	--	< 0.01 U	< 0.01 U	< 0.01 U
Benzo(a)pyrene	ug/L	1.6E-05	GW-2	< 0.01 U	< 0.01 U	< 0.01 U	--	< 0.01 U	--	< 0.01 U	--	< 0.01 U	< 0.01 U	< 0.01 U
Benzo(b)fluoranthene	ug/L	0.00016	GW-2	< 0.01 U	< 0.01 U	< 0.01 U	--	< 0.01 U	--	< 0.01 U	--	< 0.01 U	< 0.01 U	< 0.01 U
Benzo(j)fluoranthene	ug/L			--	--	--	--	--	--	--	--	--	--	--
Benzo(j,k)fluoranthene	ug/L			--	--	--	--	--	--	--	--	--	< 0.01 U	< 0.01 U
Benzo(k)fluoranthene	ug/L	0.0013	GW-2	< 0.01 U	< 0.01 U	< 0.01 U	--	< 0.01 U	--	< 0.01 U	--	< 0.01 U	--	--
Chrysene	ug/L	0.016	GW-2	< 0.01 U	< 0.01 U	< 0.01 U	--	< 0.01 U	--	< 0.01 U	--	< 0.01 U	< 0.01 U	< 0.01 U
Dibenzo(a,h)anthracene	ug/L	1.6E-05	GW-2	< 0.01 U	< 0.01 U	< 0.01 U	--	< 0.01 U	--	< 0.01 U	--	< 0.01 U	< 0.01 U	< 0.01 U
Indeno(1,2,3-cd)pyrene	ug/L	0.00016	GW-2	< 0.01 U	< 0.01 U	< 0.01 U	--	< 0.01 U	--	< 0.01 U	--	< 0.01 U	< 0.01 U	< 0.01 U
Total Benzofluoranthenes	ug/L			< 0.01 U	< 0.01 U	< 0.01 U	--	< 0.01 U	--	< 0.01 U	--	< 0.01 U	< 0.01 U	< 0.01 U
Total HPAHs (ND = 1/2 RDL)	ug/L			< 0.02 U	< 0.02 U	< 0.02 U	--	< 0.02 U	--	< 0.02 U	--	< 0.02 U	< 0.1 U	< 0.1 U
Total LPAHs (ND = 1/2 RDL)	ug/L			< 0.1 U	< 0.1 U	< 0.1 U	--	< 1 UJ	--	< 0.1 U	--	< 0.1 U	< 0.1 U	< 0.1 U
Total cPAHs TEQ (ND = 1/2 RDL)	ug/L	1.6E-05	GW-2	< 0.00755 U	< 0.00755 U	< 0.00755 U	--	< 0.00755 U	--	< 0.00755 U	--	< 0.00755 U	< 0.00755 U	< 0.00755 U
Semivolatile Organic Compounds (SVOCs)														
1,2-Diphenylhydrazine	ug/L	0.02	GW-2	< 0.1 U	< 0.1 U	< 0.1 U	--	< 0.1 U	--	< 0.1 U	--	< 0.1 U	--	--
2,4,5-Trichlorophenol	ug/L	600	GW-2	< 1 U	< 1 U	< 1 U	--	< 1 U	--	< 1 U	--	< 1 U	--	--
2,4,6-Trichlorophenol	ug/L	0.28	GW-2	< 1 U	< 1 U	< 1 U	--	< 1 U	--	< 1 U	--	< 1 U	--	--
2,4-Dichlorophenol	ug/L	10	GW-2	< 1 U	< 1 U	< 1 U	--	< 1 U	--	< 1 U	--	< 1 U	--	--
2,4-Dimethylphenol	ug/L	2.9	GW-3	< 1 U	< 1 U	< 1 U	--	< 1 U	--	< 1 U	--	< 1 U	--	--
2,4-Dinitrophenol	ug/L	100	GW-2	< 3 U	< 3 U	< 3 U	--	< 3 U	--	< 3 U	--	< 3 U	< 5 U	< 5.2 U
2,4-Dinitrotoluene	ug/L	0.18	GW-2	< 0.5 U	< 0.5 U	< 0.5 U	--	< 0.5 U	--	< 0.5 U	--	< 0.5 U	--	--
2,6-Dinitrotoluene	ug/L			< 0.5 U	< 0.5 U	< 0.5 U	--	< 0.5 U	--	< 0.5 U	--	< 0.5 U	--	--
2-Chloronaphthalene	ug/L	100	GW-2	< 0.1 U	< 0.1 U	< 0.1 U	--	< 0.1 U	--	< 0.1 U	--	< 0.1 U	--	--
2-Chlorophenol	ug/L	17	GW-2	< 1 U	< 1 U	< 1 U	--	< 1 U	--	< 1 U	--	< 1 U	--	--
2-Methylphenol	ug/L	9.8	GW-3	< 1 U	< 1 U	< 1 U	--	< 1 U	--	< 1 U	--	< 1 U	--	--
2-Nitroaniline	ug/L			< 0.5 U	< 0.5 U	< 0.5 U	--	< 0.5 U	--	< 0.5 U	--	< 0.5 U	--	--
2-Nitrophenol	ug/L			< 1 U	< 1 U	< 1 U	--	< 1 U	--	< 1 U	--	< 1 U	--	--
3 & 4 Methylphenol	ug/L			< 2 U	< 2 U	< 2 U	--	< 2 U	--	< 2 U	--	< 2 U	--	--
3,3'-Dichlorobenzidine	ug/L	0.0033	GW-2	< 1 U	< 1 U	< 1 U	--	< 1 U	--	< 1 U	--	< 1 U	--	--
3-Nitroaniline	ug/L			< 10 U	< 10 U	< 10 U	--	< 10 U	--	< 10 U	--	< 10 U	--	--
4,6-Dinitro-2-methylphenol	ug/L	7	GW-2	< 3 U	< 3 U	< 3 U	--	< 3 U	--	< 3 U	--	< 3 U	--	--
4-Bromophenyl phenyl ether	ug/L			< 0.1 U	< 0.1 U	< 0.1 U	--	< 0.1 U	--	< 0.1 U	--	< 0.1 U	--	--
4-Chloro-3-methylphenol	ug/L	36	GW-2	< 1 U	< 1 U	< 1 U	--	< 1 U	--	< 1 U	--	< 1 U	--	--
4-Chloroaniline	ug/L			< 10 U	< 10 U	< 10 U	--	< 10 U	--	< 10 U	--	< 10 U	--	--
4-Chlorophenyl phenyl ether	ug/L			< 0.1 U	< 0.1 U	< 0.1 U	--	< 0.1 U	--	< 0.1 U	--	< 0.1 U	--	--
4-Methylphenol	ug/L	110	GW-3	--	--	--	--	--	--	--	--	--	--	--
4-Nitroaniline	ug/L			< 10 U	< 10 U	< 10 U	--	< 10 U	--	< 10 U	--	< 10 U	--	--
4-Nitrophenol	ug/L			< 3 U	< 3 U	< 3 U	--	< 3 U	--	< 3 U	--	< 3 U	--	--
Benzoic acid	ug/L	590	GW-3	< 5 U	< 5 U	< 5 U	--	< 5 U	--	< 5 U	--	< 5 U	--	--
Benzyl alcohol	ug/L	56	GW-3	< 1 U	< 1 U	< 1 U	--	< 1 U	--	< 1 U	--	< 1 U	--	--
Benzyl butyl phthalate	ug/L	0.013	GW-2	< 1 U	< 1 U	< 1 U	--	< 1 U	--	< 1 U	--	< 1 U	--	--
Bis(2-chloro-1-methylethyl) ether	ug/L	100	GW-2	< 0.1 U	< 0.1 U	< 0.1 U	--	< 0.1 U	--	< 0.1 U	--	< 0.1 U	--	--
Bis(2-chloroethoxy)methane	ug/L			< 0.1 U	< 0.1 U	< 0.1 U	--	< 0.1 U	--	< 0.1 U	--	< 0.1 U	--	--
Bis(2-chloroethyl) ether	ug/L	0.06	GW-2	< 0.1 U	< 0.1 U	< 0.1 U	--	< 0.1 U	--	< 0.1 U	--	< 0.1 U	--	--
Bis(2-ethylhexyl) phthalate	ug/L	0.046	GW-2	< 1.6 U	**2.6**	**1.6**	--	< 1.6 U	--	< 1.6 U	--	< 1.6 U	< 1 U	< 1 U
Carbazole	ug/L			< 0.1 U	< 0.1 U	< 0.1 U	--	< 0.1 U	--	< 0.1 U	--	< 0.1 U	--	--
Dibenzofuran	ug/L	3.1	GW-3	< 0.1 U	< 0.1 U	< 0.1 U	--	< 0.1 U	--	< 0.1 U	--	< 0.1 U	--	--
Diethyl phthalate	ug/L	93	GW-3	< 1 U	< 1 U	< 1 U	--	< 1 U	--	< 1 U	--	< 1 U	--	--
Dimethyl phthalate	ug/L	59	GW-3	< 1 U	< 1 U	< 1 U	--	< 1 U	--	< 1 U	--	< 1 U	--	--
Di-n-butyl phthalate	ug/L	8	GW-2	< 1 U	< 1 U	< 1 U	--	< 1 U	--	< 1 U	--	< 1 U	--	--
Di-n-octyl phthalate	ug/L	2.3	GW-3	< 1 U	< 1 U	< 1 U	--	< 1 U	--	< 1 U	--	< 1 U	--	--
Hexachlorobenzene	ug/L	5E-06	GW-2	< 0.1 U	< 0.1 U	< 0.1 U	--	< 0.1 U	--	< 0.1 U	--	< 0.1 U	--	--
Hexachlorobutadiene	ug/L	0.01	GW-2	< 0.1 U	< 0.1 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.1 U	< 5 U	< 0.1 U	--	--
Hexachlorocyclopentadiene	ug/L	1	GW-2	< 0.3 U	< 0.3 U	< 0.3 U	--	< 0.3 U	--	< 0.3 U	--	< 0.3 U	--	--
Hexachloroethane	ug/L	0.02	GW-2	< 0.1 U	< 0.1 U	< 0.1 U	--	< 0.1 U	--	< 0.1 U	--	< 0.1 U	--	--
Isophorone	ug/L	110	GW-2	< 0.1 U	< 0.1 U	< 0.1 U	--	< 0.1 U	--	< 0.1 U	--	< 0.1 U	--	--
Nitrobenzene	ug/L	100	GW-2	< 0.1 U	< 0.1 U	< 0.1 U	--	< 0.1 U	--	< 0.1 U	--	< 0.1 U	--	--
N-Nitrosodimethylamine	ug/L	0.34	GW-2	< 0.1 UJ	< 0.1 U	< 0.1 UJ	--	< 0.1 U	--	< 0.1 U	--	< 0.1 U	--	--
N-Nitroso-di-n-propylamine	ug/L	0.058	GW-2	< 0.1 U	< 0.1 U	< 0.1 U	--	< 0.1 U	--	< 0.1 U	--	< 0.1 U	--	--
N-Nitrosodiphenylamine	ug/L	0.55	GW-3	< 0.1 U	< 0.1 U	< 0.1 U	--	< 0.1 U	--	< 0.1 U	--	< 0.1 U	--	--
Pentachlorophenol	ug/L	0.002	GW-2	< 0.5 U	< 0.5 U	< 0.5 U	--	< 0.5 U	--	< 0.5 U	--	< 0.5 U	--	--
Perylene	ug/L			--	--	--	--	--	--	--	--	--	--	--
Phenol	ug/L	100	GW-3	< 1 U	< 1 U	< 1 U	--	< 1 U	--	< 1 U	--	< 1 U	--	--

Table I.3.A. Groundwater Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL.

Location				MW-17	MW-18D	MW-19		MW-19D		MW-20		MW-22	SB-21	SB-22
Date				10/27/22	10/31/22	10/27/22	03/24/23	10/27/22	03/23/23	10/31/22	03/24/23	10/24/22	07/27/11	07/27/11
Sample				MW-17-221027	MW-18D-221031	MW-19-221027	MW-19-230324	MW-19D-221027	MW-19D-230323	MW-20-221031	MW-20-230324	MW-22-221024	SB21-WATER-072711	SB22-WATER-072711
Hydrostatigraphic Unit				Alluvial	Alluvial	Fill	Fill	Alluvial	Alluvial	Alluvial	Alluvial	Fill	--	--
Tidal Stage				Higher-High	Higher-High	Higher-High	Lower-Low	Higher-High	Lower-Low	Higher-Low	Higher-High	Higher-Low	--	--
Tidal Trend				Outgoing	Outgoing	Outgoing	Incoming	Outgoing	Incoming	Outgoing	Outgoing	Outgoing	--	--
Analyte	Unit	Preliminary RI SL	Basis of SL											
Pesticides														
2,4'-DDD	ug/L			--	--	--	--	--	--	--	--	--	--	--
2,4'-DDE	ug/L			--	--	--	--	--	--	--	--	--	--	--
2,4'-DDT	ug/L			--	--	--	--	--	--	--	--	--	--	--
4,4'-DDD	ug/L	7.9E-06	GW-2	< 0.00125 U	< 0.00125 U	< 0.00125 U	--	< 0.00125 U	--	< 0.00125 U	--	< 0.00125 U	< 0.0052 U	< 0.005 U
4,4'-DDE	ug/L	8.8E-07	GW-2	< 0.00125 U	< 0.00125 U	< 0.00125 U	--	< 0.00125 U	--	< 0.00125 U	--	< 0.00125 U	< 0.0052 U	< 0.005 U
4,4'-DDT	ug/L	1.2E-06	GW-2	< 0.00125 U	< 0.00125 U	< 0.00125 U	--	< 0.00125 U	--	< 0.00125 U	--	< 0.00125 U	< 0.0052 U	< 0.005 U
Aldrin	ug/L	4.1E-08	GW-2	< 0.000625 U	< 0.000625 U	< 0.000625 U	--	< 0.000625 U	--	< 0.000625 U	--	< 0.000625 U	< 0.0052 U	**0.01**
Alpha-BHC	ug/L	4.8E-05	GW-2	< 0.000625 U	< 0.000625 U	< 0.000625 U	--	< 0.000625 U	--	< 0.000625 U	--	< 0.000625 U	< 0.0052 U	< 0.005 U
Beta-BHC	ug/L	0.0014	GW-2	< 0.000625 U	< 0.000625 U	< 0.000625 U	--	< 0.000625 U	--	< 0.000625 U	--	< 0.000625 U	< 0.0052 U	< 0.005 U
Chlordane	ug/L	2.2E-05	GW-2	--	--	--	--	--	--	--	--	--	--	--
cis-Chlordane	ug/L	7.8E-05	GW-3	< 0.000625 U	< 0.000625 U	< 0.000625 U	--	< 0.000625 U	--	< 0.000625 U	--	< 0.000625 U	< 0.0052 U	< 0.005 U
cis-Nonachlor	ug/L			--	--	--	--	--	--	--	--	--	--	--
Delta-BHC	ug/L			< 0.000625 U	< 0.000625 U	< 0.000625 U	--	< 0.000625 U	--	< 0.000625 U	--	< 0.000625 U	< 0.0052 U	< 0.005 U
Dieldrin	ug/L	7E-08	GW-2	< 0.00125 U	< 0.00125 U	< 0.00125 U	--	< 0.00125 U	--	< 0.00125 U	--	< 0.00125 U	< 0.082 U	< 0.005 U
Endosulfan I	ug/L	0.0087	GW-2	< 0.000625 U	< 0.000625 U	< 0.000625 U	--	< 0.000625 U	--	< 0.000625 U	--	< 0.000625 U	< 0.0052 U	< 0.005 U
Endosulfan II	ug/L	0.0087	GW-2	< 0.00125 U	< 0.00125 U	< 0.00125 U	--	< 0.00125 U	--	< 0.00125 U	--	< 0.00125 U	< 0.0052 U	< 0.005 U
Endosulfan Sulfate	ug/L	10	GW-2	< 0.00125 U	< 0.00125 U	< 0.00125 U	--	< 0.00125 U	--	< 0.00125 U	--	< 0.00125 U	< 0.0052 U	< 0.005 U
Endrin	ug/L	0.002	GW-2	< 0.00125 U	< 0.00125 U	< 0.00125 U	--	< 0.00125 U	--	< 0.00125 U	--	< 0.00125 U	< 0.0052 U	< 0.005 U
Endrin Aldehyde	ug/L	0.035	GW-2	< 0.00125 U	< 0.00125 U	< 0.00125 U	--	< 0.00125 U	--	< 0.00125 U	--	< 0.00125 U	< 0.0052 U	< 0.005 U
Endrin ketone	ug/L			< 0.00125 U	< 0.00125 U	< 0.00125 U	--	< 0.00125 U	--	< 0.00125 U	--	< 0.00125 U	< 0.021 U	< 0.02 U
Heptachlor	ug/L	3.4E-07	GW-2	< 0.000625 U	< 0.000625 U	< 0.000625 U	--	< 0.000625 U	--	< 0.000625 U	--	< 0.000625 U	< 0.0052 U	< 0.005 U
Heptachlor Epoxide	ug/L	2.4E-06	GW-2	< 0.000625 U	< 0.000625 U	< 0.000625 U	--	< 0.000625 U	--	< 0.000625 U	--	< 0.000625 U	< 0.0052 U	< 0.005 U
Lindane	ug/L	0.13	GW-2	< 0.000625 U	< 0.000625 U	< 0.000625 U	--	< 0.000625 U	--	< 0.000625 U	--	< 0.000625 U	< 0.0052 U	< 0.005 U
Methoxychlor	ug/L	0.02	GW-2	< 0.00625 U	< 0.00625 U	< 0.00625 U	--	< 0.00625 U	--	< 0.00625 U	--	< 0.00625 U	< 0.01 U	< 0.01 U
Mirex	ug/L	0.001	GW-2	--	--	--	--	--	--	--	--	--	--	--
Oxychlordane	ug/L			--	--	--	--	--	--	--	--	--	--	--
Toxaphene	ug/L	3.2E-05	GW-2	< 0.0625 U	< 0.0625 U	< 0.0625 U	--	< 0.0625 U	--	< 0.0625 U	--	< 0.0625 U	< 0.052 U	< 0.05 U
trans-Chlordane	ug/L	7.8E-05	GW-3	< 0.000625 U	< 0.000625 U	< 0.000625 U	--	< 0.000625 U	--	< 0.000625 U	--	< 0.000625 U	**0.015**	< 0.005 U
trans-Nonachlor	ug/L			--	--	--	--	--	--	--	--	--	--	--
Total Petroleum Hydrocarbons (TPH)														
Gasoline-Range Organics	ug/L	800	GW-2	< 100 U	< 100 U	< 100 U	--	< 100 U	--	R	R	< 100 U	< 100 U	< 100 U
Diesel-Range Organics	ug/L	500	GW-2	< 50 U	< 50 U	< 50 U	--	< 50 U	--	< 50 U	< 50 U	< 50 U	< 270 U	< 270 U
Motor Oil-Range Organics	ug/L	500	GW-2	< 250 U	< 250 U	< 250 U	--	< 250 U	--	< 250 U	< 250 U	< 250 U	< 440 U	< 430 U
Diesel and Oil Extended-Range Organics	ug/L	500	GW-2	< 250 U	< 250 U	< 250 U	--	< 250 U	--	< 250 U	< 250 U	< 250 U	< 440 U	< 430 U
Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)														
Benzene	ug/L	1.6	GW-2	< 0.35 U	< 0.35 U	< 0.35 U	< 0.35 U	< 0.35 UJ	< 0.35 U	< 0.35 U	< 3.5 U	< 0.35 U	< 0.2 U	< 0.2 U
Toluene	ug/L	100	GW-2	< 1 U	< 1 U	< 1 U	< 1 U	< 1 UJ	< 1 U	< 1 U	< 10 U	< 1 U	< 1 U	< 1 U
Ethylbenzene	ug/L	21	GW-2	< 1 U	< 1 U	< 1 U	< 1 U	< 1 UJ	< 1 U	< 1 U	< 10 U	< 1 U	< 0.2 U	< 0.2 U
Total Xylenes	ug/L	110	GW-2	< 2 U	< 2 U	< 2 U	< 2 U	< 2 UJ	< 2 U	< 2 U	< 20 U	< 2 U	< 0.6 U	< 0.6 U
Volatile Organic Compounds (VOCs)														
1,1,1,2-Tetrachloroethane	ug/L	7.1	GW-4	< 1 U	< 1 U	< 1 U	< 1 U	< 1 UJ	< 1 U	< 1 U	< 10 U	< 1 U	--	--
1,1,1-Trichloroethane	ug/L	5400	GW-4	< 1 U	< 1 U	< 1 U	< 1 U	< 1 UJ	< 1 U	< 1 U	< 10 U	< 1 U	--	--
1,1,2 - Trichlorotrifluoroethane	ug/L	170	GW-4	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/L	0.3	GW-2	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 UJ	< 0.2 U	< 0.2 U	< 2 U	< 0.2 U	--	--
1,1,2-Trichloroethane	ug/L	0.9	GW-2	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 5 U	< 0.5 U	--	--
1,1-Dichloroethane	ug/L	11	GW-4	< 1 U	< 1 U	< 1 U	< 1 U	< 1 UJ	< 1 U	< 1 U	< 10 U	< 1 U	--	--
1,1-Dichloroethene	ug/L	130	GW-4	< 1 U	< 1 U	< 1 U	< 1 U	< 1 UJ	< 1 U	< 1 U	< 10 U	< 1 U	--	--
1,1-Dichloropropene	ug/L			< 1 U	< 1 U	< 1 U	< 1 U	< 1 UJ	< 1 U	< 1 U	< 10 U	< 1 U	--	--
1,2,3-Trichlorobenzene	ug/L			< 1 U	< 1 U	< 1 U	< 1 U	< 1 UJ	< 1 U	< 1 U	< 10 U	< 1 U	--	--
1,2,3-Trichloropropane	ug/L	20	GW-4	< 1 U	< 1 U	< 1 U	< 1 U	< 1 UJ	< 1 U	< 1 U	< 10 U	< 1 U	--	--
1,2,4-Trichlorobenzene	ug/L	0.037	GW-2	< 0.1 U	< 0.1 U	< 1 U	< 1 U	< 1 UJ	< 1 U	< 0.1 U	< 10 U	< 0.1 U	--	--
1,2,4-Trimethylbenzene	ug/L	240	GW-4	< 1 U	< 1 U	< 1 U	< 1 U	< 1 UJ	< 1 U	< 1 U	< 10 U	< 1 U	--	--
1,2-Dibromo-3-chloropropane	ug/L	0.042	GW-4	< 10 U	< 10 U	< 10 U	< 10 U	< 10 UJ	< 10 U	< 10 U	< 100 U	< 10 U	--	--
1,2-Dibromoethane (EDB)	ug/L	0.3	GW-4	< 1 U	< 1 U	< 1 U	< 1 U	< 1 UJ	< 1 U	< 1 U	< 10 U	< 1 U	--	--
1,2-Dichlorobenzene	ug/L	4.5	GW-3	< 0.1 U	< 1 U	< 0.1 U	< 1 U	< 1 UJ	< 1 U	< 0.1 U	< 10 U	< 0.1 U	< 0.2 U	< 0.2 U
1,2-Dichloroethane (EDC)	ug/L	3.5	GW-4	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 UJ	< 0.2 U	< 0.2 U	< 2 U	< 0.2 U	--	--
1,2-Dichloropropane	ug/L	3.1	GW-2	< 1 U	< 1 U	< 1 U	< 1 U	< 1 UJ	< 1 U	< 1 U	< 10 U	< 1 U	--	--
1,3,5-Trimethylbenzene	ug/L	170	GW-4	< 1 U	< 1 U	< 1 U	< 1 U	< 1 UJ	< 1 U	< 1 U	< 10 U	< 1 U	--	--
1,3-Dichlorobenzene	ug/L	2	GW-2	< 0.1 U	**0.11**	< 1 U	< 1 U	< 1 UJ	< 1 U	< 0.1 U	< 10 U	< 0.1 U	--	--
1,3-Dichloropropane	ug/L	1.2	GW-2	< 1 U	< 1 U	< 1 U	< 1 U	< 1 UJ	< 1 U	< 1 U	< 10 U	< 1 U	--	--
1,4-Dichloro-2-Butene	ug/L			--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	ug/L	5	GW-4	< 0.1 U	< 0.1 U	< 1 U	< 1 U	< 1 UJ	< 1 U	< 0.1 U	< 10 U	< 0.1 U	--	--
2,2-Dichloropropane	ug/L			< 1 U	< 1 U	< 1 U	< 1 U	< 1 UJ	< 1 U	< 1 U	< 10 U	< 1 U	--	--
2-Butanone	ug/L	1700000	GW-4	< 20 U	< 20 U	< 20 U	< 20 U	< 20 UJ	< 20 U	< 20 U	< 200 U	< 20 U	< 5 U	< 5 U
2-Chlorotoluene	ug/L			< 1 U	< 1 U	< 1 U	< 1 U	< 1 UJ	< 1 U	< 1 U	< 10 U	< 1 U	--	--
2-Hexanone	ug/L	7300	GW-4	< 10 U	< 10 U	< 10 U	< 10 U	< 10 UJ	< 10 U	< 10 U	< 100 U	< 10 U	--	--
2-Pentanone	ug/L			--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	ug/L			< 1 U	< 1 U	< 1 U	< 1 U	< 1 UJ	< 1 U	< 1 U	< 10 U	< 1 U	--	--
4-Methyl-2-pentanone	ug/L	470000	GW-4	< 10 U	< 10 U	< 10 U	< 10 U	< 10 UJ	< 10 U	< 10 U	< 100 U	< 10 U	--	--
Acetone	ug/L			< 50 U	< 50 U	< 50 U	< 50 U	< 50 UJ	< 50 U	< 50 U	< 500 U	< 50 U	--	--
Acrolein	ug/L	1.1	GW-2	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	ug/L	0.028	GW-2	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	ug/L	630	GW-4	< 1 U	< 1 U	< 1 U	< 1 U	< 1 UJ	< 1 U	< 1 U	< 10 U	< 1 U	--	--
Bromochloromethane	ug/L			--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	ug/L	1.4	GW-4	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 5 U	< 0.5 U	--	--
Bromoform	ug/L	12	GW-2	< 5 U	< 5 U	< 5 U	< 5 U	< 5 UJ	< 5 U	< 5 U	< 50 U	< 5 U	--	--
Bromomethane	ug/L	11	GW-4	< 5 U	< 5 U	< 5 U	< 5 U	< 5 UJ	< 5 U	< 5 U	< 50 U	< 5 U	--	--
Carbon Disulfide	ug/L	840	GW-4	--	--	--	--	--	--	--	--	--	< 0.2 U	< 0.2 U
Carbon Tetrachloride	ug/L	0.35	GW-2	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 5 U	< 0.5 U	--	--
Chlorobenzene	ug/L	200	GW-2	< 1 U	< 1 U	< 1 U	< 1 U	< 1 UJ	< 1 U	< 1 U	< 10 U	< 1 U	--	--
Chloroethane	ug/L	15000	GW-4	< 1 U	< 1 U	< 1 U	< 1 U	< 1 UJ	< 1 U	< 1 U	< 10 U	< 1 U	--	--
Chloroform	ug/L	1.2	GW-4	< 1 U	< 1 U	< 1 U	< 1 U	< 1 UJ	< 1 U	< 1 U	< 10 U	< 1 U	--	--
Chloromethane	ug/L	150	GW-4	< 10 U	< 10 U	< 10 U	< 10 U	< 10 UJ	< 10 U	< 10 U	< 100 U	< 10 U	--	--
cis-1,2-Dichloroethene (DCE)	ug/L	180	GW-4	< 1 U	< 1 U	< 1 U	< 1 U	**4 J**	**13**	**15**	< 10 U	< 1 U	--	--
cis-1,3-Dichloropropene	ug/L	1.2	GW-2	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 UJ	< 0.4 U	< 0.4 U	< 4 U	< 0.4 U	--	--
Dibromochloromethane	ug/L	2.2	GW-2	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 UJ	< 0.5 U	< 0.5 U	< 5 U	< 0.5 U	--	--
Dibromomethane	ug/L	97	GW-4	< 1 U	< 1 U	< 1 U	< 1 U	< 1 UJ	< 1 U	< 1 U	< 10 U	< 1 U	--	--
Dichlorodifluoromethane	ug/L	4.2	GW-4	< 1 U	< 1 U	< 1 U	< 1 U	< 1 UJ	< 1 U	< 1 U	< 10 U	< 1 U	--	--
Isopropylbenzene	ug/L	910	GW-4	< 1 U	< 1 U	< 1 U	< 1 U	< 1 UJ	< 1 U	< 1 U	< 10 U	< 1 U	--	--
m,p-Xylenes	ug/L			< 2 U	< 2 U	< 2 U	< 2 U	< 2 UJ	< 2 U	< 2 U	< 20 U	< 2 U	--	--
Methyl tert-butyl ether (MTBE)	ug/L	860	GW-4	< 1 U	< 1 U	< 1 U	< 1 U	< 1 UJ	< 1 U	< 1 U	< 10 U	< 1 U	--	--
Methylene Chloride	ug/L	100	GW-2	< 5 UJ	< 5 UJ	< 5 U	< 5 U	< 5 UJ	< 5 U	< 5 U	< 50 U	**6.1 J**	--	--
Methyliodide	ug/L			--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	ug/L			--	--	--	--	--	--	--	--	--	< 0.2 U	< 0.2 U
n-Hexane	ug/L	7.2	GW-4	< 5 U	< 5 U	< 5 U	< 5 U	< 5 UJ	< 5 U	< 5 U	< 50 U	< 5 U	--	--
n-Propylbenzene	ug/L	2300	GW-4	< 1 U	< 1 U	< 1 U	< 1 U	< 1 UJ	< 1 U	< 1 U	< 10 U	< 1 U	--	--
o-Xylene	ug/L			< 1 U	< 1 U	< 1 U	< 1 U	< 1 UJ	< 1 U	< 1 U	< 10 U	< 1 U	--	--
p-Isopropyltoluene	ug/L	88	GW-4	< 1 U	< 1 U	< 1 U	< 1 U	< 1 UJ	< 1 U	< 1 U	< 10 U	< 1 U	--	--
sec-Butylbenzene	ug/L			< 1 U	< 1 U	< 1 U	< 1 U	< 1 UJ	< 1 U	< 1 U	< 10 U	< 1 U	< 0.2 U	< 0.2 U
Styrene	ug/L	8500	GW-4	< 1 U	< 1 U	< 1 U	< 1 U	< 1 UJ	< 1 U	< 1 U	< 10 U	< 1 U	--	--
tert-Butylbenzene	ug/L			< 1 U	< 1 U	< 1 U	< 1 U	< 1 UJ	< 1 U	< 1 U	< 10 U	< 1 U	--	--
Tetrachloroethene (PCE)	ug/L	2.9	GW-2	< 1 U	< 1 U	< 1 U	< 1 U	**57 J**	**140**	**3300**	**1200**	**65**	< 0.2 U	< 0.2 U
trans-1,2-Dichloroethene	ug/L	77	GW-4	< 1 U	< 1 U	< 1 U	< 1 U	< 1 UJ	< 1 U	< 1 U	< 10 U	< 1 U	--	--
trans-1,3-Dichloropropene	ug/L	1.2	GW-2	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 UJ	< 0.4 U	< 0.4 U	< 4 U	< 0.4 U	--	--
Trichloroethene (TCE)	ug/L	0.7	GW-2	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	**2.6 J**	**11**	**9.7**	**5.4**	**1.2**	--	--
Trichlorofluoromethane	ug/L	120	GW-4	< 1 U	< 1 U	< 1 U	< 1 U	< 1 UJ	< 1 U	< 1 U	< 10 U	< 1 U	--	--
Vinyl Acetate	ug/L	8100	GW-4	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	ug/L	0.18	GW-2	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	**0.48 J**	**0.95**	**0.023**	< 0.2 U	< 0.02 U	--	--
Conventionals														
Total Organic Carbon	ug/L			--	--	--	--	--	--	--	--	--	--	--
Total Suspended Solids	mg/L			< 5 UJ	< 5 U	**30 J**	**73**	**6 J**	< 5 U	< 5 U	**8.4**	< 5 U	--	--
Field Parameters														
Temperature	deg C			**14.7**	**15.5**	--	**10.4**	--	**12.1**	--	**11.4**	**17.0**	--	--
Specific Conductance	uS/cm			**417**	**369**	**117**	**83.6**	**198**	**185**	**222**	**167**	**643**	--	--
Dissolved Oxygen	mg/L			**2.75**	**2.53**	**1.15**	**3.33**	**0.22**	**0.3**	**6.28**	**5.68**	**0.5**	--	--
pH	pH units			**6.21**	**6.38**	**6.46**	**6.49**	**6.39**	**6.43**	**6.22**	**6.33**	**6.52**	--	--
Oxidation Reduction Potential	mV			**182**	**180**	**129**	**49.3**	**48.1**	**85.4**	**149**	**220**	**135**	--	--
Turbidity	NTU			**0**	**0.8**	**62.7**	**64.2**	**9.29**	**4.89**	**0.28**	**5.87**	**4.56**	--	--

Table I.3.A. Groundwater Analytical Results

South Park Marina Site, Seattle, Washington

Notes:

Bold - detected

ug/L = micrograms per liter

mg/L = milligraps per liter

"--" = Results not available

U = Analyte not detected at or above Reporting Limit (RL) shown

J = Result value estimated

UJ = Analyte not detected, and the Reporting Limit (RL) is an estimate

R = Rejected, refer to data validation report

RDL = reported detection limit

RI = Remedial Investigation

SL = screening level

MTCA = Model Toxics Control Act

PCB = polychlorinated biphenyl

Total PCB Arolclors (ND = 0) are the sum of Aroclors presented, with nondetects = 0, unless all Aroclors were not detected, in which case the Total PCB Aroclors concentration is shown as non-detect at the maximum reporting limit for any individual Aroclor presented.

Total PCB Congeners (ND = 0) and Total PCB TEQ (ND = 0) are summed with nondetects = 0.

LPAHs = low molecular weight polycyclic aromatic hydrocarbons: naphthalene, acenaphthylene, acenaphethene, fluorene, phenanthrene, and anthracene.
HPAHs = high molecular weight polycyclic aromatic hydrocarbons: fluoranthene, pyrene, benz(a)anthracene, chrysene, total benzofluoranthenes, benzo(a)pyrene, indeno(1,2,3,-c,d)pyrene, dibenzo(a,h)anthracene, and benzo(g,h,i)perylene.
cPAHs = carcinogenic polycyclic aromatic hydrocarbons: benzo(a)pyrene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene.

TEQ = toxic equivalency

Groundwater SL for chromium uses the PCUL Workbook value for trivalent chromium because total chromium does not have a groundwater SL and, in the reducing site groundwater, chromium is in the trivalent form.

Screening Level Codes:

GW-2	Protect Surface Water via Groundwater
GW-3	Protect Sediment via Groundwater
GW-4	Protect Indoor Air via Groundwater
GW-5	Natural Background

Screening Level Notes:

Screening level shading is hierarchical: If only nondetect values exceed the screening level, the screening level is shaded grey; if detected results (and potentially nondetected results) exceed the screening level, the screening level is shaded blue.

Gray Shaded - Nondetect result has a reporting limit that exceeds a screening level.

Blue Shaded - Detected result exceeded the screening level.

Table I.3.B. Vadose Soil Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL

				Location	21F-SS-01	21F-SS-02	A10	A11	A12		B-01		B-02	B-03		
				Date	09/14/21	09/14/21	01/17/06	01/24/06	01/24/06	01/24/06	11/17/17	11/17/17	11/17/17	11/17/17	11/17/17	11/17/17
				Sample	SPM 20210914 SS-1-TIG	SPM 20210914 SS-2-TIG	T117-A10-SB-01	T117-A11-SB-0.0-0.5	T117-A12-SB-0.0-0.5	T117-A12-SB-0.5-1.5	B-01-2-3	B-01-3.5-4.5	B-02-2.5-3	B-03-0-1	B-03-2-3	B-03-5-6
				Depth	-	-	0 - 1.5 ft	0 - 0.5 ft	0 - 0.5 ft	0.5 - 1.5 ft	2 - 3 ft	3.5 - 4.5 ft	2.5 - 3 ft	0 - 1 ft	2 - 3 ft	5 - 6 ft
				Geologic Unit	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill
Analyte	Unit	Prelmiinary RI SL	Basis of SL													
Metals, Total																
Arsenic	mg/kg	7.3	SL-10	**9.4**	**4.0**	--	--	--	--	--	--	--	--	--	--	--
Barium	mg/kg	250	SL-10	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/kg	0.77	SL-10	**1.1**	**0.35**	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/kg	67	SL-9	**15**	**10**	--	--	--	--	--	--	--	--	--	--	--
Copper	mg/kg	36	SL-10	**380**	**78**	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/kg	120	SL-9	**71**	**25**	--	--	--	--	--	--	--	--	--	--	--
Mercury	mg/kg	0.07	SL-10	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	mg/kg	48	SL-10	**19**	**7.8**	--	--	--	--	--	--	--	--	--	--	--
Selenium	mg/kg	0.78	SL-10	--	--	--	--	--	--	--	--	--	--	--	--	--
Silver	mg/kg	0.61	SL-10	--	--	--	--	--	--	--	--	--	--	--	--	--
Zinc	mg/kg	100	SL-3	**180**	**78**	--	--	--	--	--	--	--	--	--	--	--
Butyl Tins																
Dibutyltin Ion	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--	--
Monobutyltin	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrabutyltin	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--	--
Tributyltin Ion	mg/kg	0.0021	SL-8	--	--	--	--	--	--	--	--	--	--	--	--	--
Polychlorinated Biphenyl (PCB) Aroclors																
Total PCB Aroclors (ND = 0)	mg/kg	1.10E-05	SL-3	**0.23 A**	**0.126 A**	**0.088 A**	**0.219 JA**	**3.2 JA**	**0.59 A**	**6.8 A**	**3.4 A**	**3.5 A**	**20.1 A**	**16.5 A**	**31.4 A**
Polychlorinated Biphenyl (PCB) Congeners																
Total PCB Congeners (ND = 0)	mg/kg	1.10E-05	SL-3	--	--	--	--	--	--	**5.91 J**	--	--	**14.4 J**	--	--
Total PCB TEQ (ND = 0)	mg/kg	6.90E-09	SL-3	--	--	--	--	--	--	**1.51E-04**	--	--	**4.07E-04**	--	--
Dioxins/Furans																
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	5.20E-06	SL-10	--	--	--	--	--	--	--	--	--	--	--	--	--
2,3,7,8-TCDD	mg/kg	5.20E-06	SL-10	--	--	--	--	--	--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)																
1-Methylnaphthalene	mg/kg	20	SL-1	**0.011**	< 0.0041 U	< 0.066 U	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene	mg/kg	0.67	SL-8	**0.016**	< 0.0041 U	< 0.066 U	--	--	--	--	--	--	--	--	--	--
Acenaphthene	mg/kg	0.5	SL-8	**0.023**	< 0.0041 U	< 0.066 U	--	--	--	--	--	--	--	--	--	--
Acenaphthylene	mg/kg	1.3	SL-8	**0.066**	**0.022**	< 0.066 U	--	--	--	--	--	--	--	--	--	--
Anthracene	mg/kg	0.96	SL-8	**0.088**	**0.042**	< 0.066 U	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene	mg/kg	0.67	SL-8	**0.20**	**0.020**	< 0.066 U	--	--	--	--	--	--	--	--	--	--
Fluoranthene	mg/kg	1.7	SL-8	**0.57**	**0.093**	< 0.066 U	--	--	--	--	--	--	--	--	--	--
Fluorene	mg/kg	0.54	SL-8	**0.043**	**0.022**	< 0.066 U	--	--	--	--	--	--	--	--	--	--
Naphthalene	mg/kg	0.039	SL-3	**0.034**	**0.0082**	< 0.066 U	--	--	--	--	--	--	--	--	--	--
Phenanthrene	mg/kg	1.5	SL-8	**0.32**	**0.17**	< 0.066 U	--	--	--	--	--	--	--	--	--	--
Pyrene	mg/kg	2.6	SL-8	**0.54**	**0.069**	< 0.066 U	--	--	--	--	--	--	--	--	--	--
Benz(a)anthracene	mg/kg	0.73	SL-9	**0.30**	**0.029**	< 0.066 U	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	0.00031	SL-3	**0.31**	**0.021**	< 0.066 U	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	44	SL-9	**0.46**	**0.041**	< 0.066 U	--	--	--	--	--	--	--	--	--	--
Benzo(j)fluoranthene	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(j,k)fluoranthene	mg/kg			**0.15**	**0.015**	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	mg/kg	71	SL-9	--	--	< 0.066 U	--	--	--	--	--	--	--	--	--	--
Chrysene	mg/kg	1.4	SL-8	**0.45**	**0.040**	< 0.066 U	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	0.23	SL-8	**0.051**	**0.0052**	< 0.066 U	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	0.6	SL-8	**0.22**	**0.017**	< 0.066 U	--	--	--	--	--	--	--	--	--	--
Total Benzofluoranthenes	mg/kg	1.1	SL-9	**0.61**	**0.056**	< 0.066 UA	--	--	--	--	--	--	--	--	--	--
Total HPAHs (ND = 1/2 RDL)	mg/kg	1.1	SL-9	**3.25**	**0.350**	< 0.066 U	--	--	--	--	--	--	--	--	--	--
Total LPAHs (ND = 1/2 RDL)	mg/kg	5.2	SL-8	**0.574**	**0.266**	< 0.066 U	--	--	--	--	--	--	--	--	--	--
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	0.00031	SL-3	**0.433**	**0.0321**	< 0.0498 U	--	--	--	--	--	--	--	--	--	--
Semivolatile Organic Compounds (SVOCs)																
1,2-Dinitrobenzene	mg/kg	8	SL-1	< 0.041 U	< 0.020 U	--	--	--	--	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	mg/kg	0.00068	SL-3	< 0.041 U	< 0.020 U	--	--	--	--	--	--	--	--	--	--	--
1,3-Dinitrobenzene	mg/kg	8	SL-1	< 0.041 U	< 0.020 U	--	--	--	--	--	--	--	--	--	--	--
1,4-Dinitrobenzene	mg/kg	8	SL-1	< 0.041 U	< 0.020 U	--	--	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	mg/kg	2400	SL-1	< 0.041 U	< 0.020 U	--	--	--	--	--	--	--	--	--	--	--
2,3,5,6-Tetrachlorophenol	mg/kg			< 0.041 U	< 0.020 U	--	--	--	--	--	--	--	--	--	--	--
2,3-Dichloroaniline	mg/kg			< 0.041 U	< 0.020 U	--	--	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	mg/kg	22	SL-3	< 0.041 U	< 0.020 U	--	--	--	--	--	--	--	--	--	--	--
2,4,6-Trichlorophenol	mg/kg	0.0033	SL-3	< 0.041 U	< 0.020 U	--	--	--	--	--	--	--	--	--	--	--
2,4-Dichlorophenol	mg/kg	0.069	SL-3	< 0.041 U	< 0.020 U	--	--	--	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	mg/kg	0.029	SL-8	< 0.041 U	< 0.020 U	--	--	--	--	--	--	--	--	--	--	--
2,4-Dinitrophenol	mg/kg	0.061	SL-9	< 0.26 UJ	< 0.13 UJ	--	--	--	--	--	--	--	--	--	--	--
2,4-Dinitrotoluene	mg/kg	0.0028	SL-3	< 0.041 U	< 0.020 U	--	--	--	--	--	--	--	--	--	--	--
2,6-Dinitrotoluene	mg/kg	0.67	SL-1	< 0.041 U	< 0.020 U	--	--	--	--	--	--	--	--	--	--	--
2-Chloronaphthalene	mg/kg	5.4	SL-3	< 0.041 U	< 0.020 U	--	--	--	--	--	--	--	--	--	--	--
2-Chlorophenol	mg/kg	0.2	SL-3	< 0.041 U	< 0.020 U	--	--	--	--	--	--	--	--	--	--	--
2-Methylphenol	mg/kg	0.063	SL-8	< 0.041 U	< 0.020 U	--	--	--	--	--	--	--	--	--	--	--
2-Nitroaniline	mg/kg	800	SL-1	< 0.041 U	< 0.020 U	--	--	--	--	--	--	--	--	--	--	--
2-Nitrophenol	mg/kg			< 0.041 U	< 0.020 U	--	--	--	--	--	--	--	--	--	--	--
3 & 4 Methylphenol	mg/kg			< 0.041 U	< 0.020 U	--	--	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	mg/kg	2.20E-04	SL-3	< 0.21 U	< 0.10 U	--	--	--	--	--	--	--	--	--	--	--
3-Nitroaniline	mg/kg			< 0.041 U	< 0.020 U	--	--	--	--	--	--	--	--	--	--	--
4,6-Dinitro-2-methylphenol	mg/kg	0.13	SL-3	< 0.29 U	< 0.14 U	--	--	--	--	--	--	--	--	--	--	--
4-Bromophenyl phenyl ether	mg/kg			< 0.041 U	< 0.020 U	--	--	--	--	--	--	--	--	--	--	--
4-Chloro-3-methylphenol	mg/kg	0.5	SL-3	< 0.041 U	< 0.020 U	--	--	--	--	--	--	--	--	--	--	--
4-Chloroaniline	mg/kg	5	SL-1	< 0.21 U	< 0.10 U	--	--	--	--	--	--	--	--	--	--	--
4-Chlorophenyl phenyl ether	mg/kg			< 0.041 U	< 0.020 U	--	--	--	--	--	--	--	--	--	--	--
4-Methylphenol	mg/kg	0.67	SL-8	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Nitroaniline	mg/kg	22	SL-9	< 0.041 U	< 0.020 U	--	--	--	--	--	--	--	--	--	--	--
4-Nitrophenol	mg/kg			< 0.041 U	< 0.020 U	--	--	--	--	--	--	--	--	--	--	--
Aniline	mg/kg	180	SL-1	< 0.21 U	< 0.10 U	--	--	--	--	--	--	--	--	--	--	--
Benzoic acid	mg/kg	0.65	SL-8	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzyl alcohol	mg/kg	0.057	SL-8	**0.71**	**0.17**	--	--	--	--	--	--	--	--	--	--	--
Benzyl butyl phthalate	mg/kg	0.0036	SL-3	< 0.21 U	< 0.10 U	--	--	--	--	--	--	--	--	--	--	--
Bis(2-chloro-1-methylethyl) ether	mg/kg	0.59	SL-3	--	--	--	--	--	--	--	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	mg/kg	240	SL-1	< 0.041 U	< 0.020 U	--	--	--	--	--	--	--	--	--	--	--
Bis(2-chloroethyl) ether	mg/kg	0.00033	SL-3	< 0.041 U	< 0.020 U	--	--	--	--	--	--	--	--	--	--	--
bis(2-Chloroisopropyl)ether	mg/kg			< 0.041 U	< 0.020 U	--	--	--	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) adipate	mg/kg	830	SL-1	< 0.21 U	< 0.10 U	--	--	--	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate	mg/kg	0.02	SL-9	**0.41**	**0.18**	--	--	--	--	--	--	--	--	--	--	--
Carbazole	mg/kg	79	SL-9	< 0.041 U	< 0.020 U	--	--	--	--	--	--	--	--	--	--	--
Dibenzofuran	mg/kg	0.54	SL-8	< 0.041 U	< 0.020 U	< 0.066 U	--	--	--	--	--	--	--	--	--	--
Diethyl phthalate	mg/kg	0.2	SL-8	< 0.21 U	< 0.10 U	--	--	--	--	--	--	--	--	--	--	--
Dimethyl phthalate	mg/kg	0.071	SL-8	**2.3**	**0.20**	--	--	--	--	--	--	--	--	--	--	--
Di-n-butyl phthalate	mg/kg	0.011	SL-9	< 0.21 U	< 0.10 U	--	--	--	--	--	--	--	--	--	--	--
Di-n-octyl phthalate	mg/kg	0.91	SL-9	< 0.21 U	< 0.10 U	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobenzene	mg/kg	8.00E-06	SL-3	< 0.041 U	< 0.020 U	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	0.00021	SL-3	< 0.0063 U	< 0.0055 U	--	--	--	--	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	mg/kg	0.032	SL-3	< 0.089 U	< 0.044 U	--	--	--	--	--	--	--	--	--	--	--
Hexachloroethane	mg/kg	0.00016	SL-3	< 0.041 U	< 0.020 U	--	--	--	--	--	--	--	--	--	--	--
Isophorone	mg/kg	0.58	SL-3	< 0.041 U	< 0.020 U	--	--	--	--	--	--	--	--	--	--	--
Nitrobenzene	mg/kg	0.64	SL-3	< 0.041 U	< 0.020 U	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine	mg/kg	0.0015	SL-3	< 0.041 U	< 0.020 U	--	--	--	--	--	--	--	--	--	--	--
N-Nitroso-di-n-propylamine	mg/kg	0.00055	SL-3	< 0.041 U	< 0.020 U	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	mg/kg	0.028	SL-8	< 0.041 U	< 0.020 U	--	--	--	--	--	--	--	--	--	--	--
Pentachlorophenol	mg/kg	3.20E-05	SL-3	**0.27**	< 0.10 U	--	--	--	--	--	--	--	--	--	--	--
Phenol	mg/kg	0.42	SL-8	**0.20**	**0.051**	--	--	--	--	--	--	--	--	--	--	--
Pyridine	mg/kg	80	SL-1	< 0.41 U	< 0.20 U	--	--	--	--	--	--	--	--	--	--	--

Table I.3.B. Vadose Soil Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL

			Location	21F-SS-01	21F-SS-02	A10	A11	A12		B-01		B-02	B-03		
			Date	09/14/21	09/14/21	01/17/06	01/24/06	01/24/06	01/24/06	11/17/17	11/17/17	11/17/17	11/17/17	11/17/17	11/17/17
			Sample	SPM 20210914 SS-1-TIG	SPM 20210914 SS-2-TIG	T117-A10-SB-01	T117-A11-SB-0.0-0.5	T117-A12-SB-0.0-0.5	T117-A12-SB-0.5-1.5	B-01-2-3	B-01-3.5-4.5	B-02-2.5-3	B-03-0-1	B-03-2-3	B-03-5-6
			Depth	-	-	0 - 1.5 ft	0 - 0.5 ft	0 - 0.5 ft	0.5 - 1.5 ft	2 - 3 ft	3.5 - 4.5 ft	2.5 - 3 ft	0 - 1 ft	2 - 3 ft	5 - 6 ft
			Geologic Unit	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill
Analyte	Unit	Prelmiinary RI SL	Basis of SL												
Pesticides															
2,4'-DDD	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
2,4'-DDE	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
2,4'-DDT	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
4,4'-DDD	mg/kg	7.30E-06	SL-3	**0.017**	< 0.0051 U	--	--	--	--	--	--	--	--	--	--
4,4'-DDE	mg/kg	1.50E-06	SL-3	< 0.0051 U	< 0.0051 U	--	--	--	--	--	--	--	--	--	--
4,4'-DDT	mg/kg	1.60E-05	SL-3	**0.014 J**	**0.0091 J**	--	--	--	--	--	--	--	--	--	--
Aldrin	mg/kg	4.00E-08	SL-3	< 0.0051 U	< 0.0051 U	--	--	--	--	--	--	--	--	--	--
Alpha-BHC	mg/kg	1.90E-06	SL-3	< 0.0051 U	< 0.0051 U	--	--	--	--	--	--	--	--	--	--
Beta-BHC	mg/kg	6.60E-05	SL-3	< 0.0051 U	< 0.0051 U	--	--	--	--	--	--	--	--	--	--
Chlordane	mg/kg	2.30E-05	SL-3	--	--	--	--	--	--	--	--	--	--	--	--
cis-Chlordane	mg/kg	0.0001	SL-8	< 0.0051 U	< 0.0051 U	--	--	--	--	--	--	--	--	--	--
cis-Nonachlor	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
Delta-BHC	mg/kg	0.0048	SL-1	< 0.0051 U	< 0.0051 U	--	--	--	--	--	--	--	--	--	--
Dieldrin	mg/kg	3.60E-08	SL-3	< 0.0051 U	< 0.0051 U	--	--	--	--	--	--	--	--	--	--
Endosulfan I	mg/kg	0.0012	SL-3	< 0.0051 U	< 0.0051 U	--	--	--	--	--	--	--	--	--	--
Endosulfan II	mg/kg	0.0012	SL-3	< 0.0051 U	< 0.0051 U	--	--	--	--	--	--	--	--	--	--
Endosulfan Sulfate	mg/kg	2	SL-3	< 0.0051 U	< 0.0051 U	--	--	--	--	--	--	--	--	--	--
Endrin	mg/kg	0.00044	SL-3	< 0.0051 U	< 0.0051 U	--	--	--	--	--	--	--	--	--	--
Endrin Aldehyde	mg/kg	0.0024	SL-3	< 0.0051 U	< 0.0051 U	--	--	--	--	--	--	--	--	--	--
Endrin ketone	mg/kg			**0.0058 J**	< 0.0051 U	--	--	--	--	--	--	--	--	--	--
Heptachlor	mg/kg	6.60E-08	SL-3	< 0.0051 U	< 0.0051 U	--	--	--	--	--	--	--	--	--	--
Heptachlor Epoxide	mg/kg	4.90E-07	SL-3	< 0.0051 U	< 0.0051 U	--	--	--	--	--	--	--	--	--	--
Lindane	mg/kg	0.0039	SL-3	< 0.0051 U	< 0.0051 U	--	--	--	--	--	--	--	--	--	--
Methoxychlor	mg/kg	0.032	SL-3	< 0.0051 U	< 0.0051 U	--	--	--	--	--	--	--	--	--	--
Mirex	mg/kg	0.0071	SL-3	--	--	--	--	--	--	--	--	--	--	--	--
Oxychlordane	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
Toxaphene	mg/kg	6.10E-05	SL-3	< 0.051 U	< 0.051 U	--	--	--	--	--	--	--	--	--	--
trans-Chlordane	mg/kg	0.0001	SL-8	< 0.0051 U	< 0.0051 U	--	--	--	--	--	--	--	--	--	--
trans-Nonachlor	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
Total Petroleum Hydrocarbons (TPH)															
Gasoline Range Organics	mg/kg	30	SL-3	< 5.6 U	< 5.3 U	--	--	--	--	--	--	--	--	--	--
Diesel Range Organics	mg/kg	2000	SL-9	**73**	< 25 U	**94**	--	--	--	--	--	--	--	--	--
Motor Oil Range Organics	mg/kg	2000	SL-9	**310**	**76**	**100**	--	--	--	--	--	--	--	--	--
Diesel and Oil Extended Range Organics	mg/kg	2000	SL-9	**383**	**76**	**194**	--	--	--	--	--	--	--	--	--
Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)															
Benzene	mg/kg	0.0088	SL-3	< 0.0013 U	< 0.0011 U	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	0.72	SL-3	< 0.0063 U	< 0.0055 U	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	0.18	SL-3	< 0.0013 U	< 0.0011 U	--	--	--	--	--	--	--	--	--	--
Total Xylenes	mg/kg	0.94	SL-3	< 0.0025 U	< 0.0022 U	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds (VOCs)															
1,1,1,2-Tetrachloroethane	mg/kg	38	SL-1	< 0.0013 U	< 0.0011 U	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	370	SL-3	< 0.0013 U	< 0.0011 U	--	--	--	--	--	--	--	--	--	--
1,1,2 - Trichlorotrifluoroethane	mg/kg	2400000	SL-1	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	0.0017	SL-3	< 0.0013 U	< 0.0011 U	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	0.005	SL-3	< 0.0013 U	< 0.0011 U	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	180	SL-1	< 0.0013 U	< 0.0011 U	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	11	SL-9	< 0.0013 U	< 0.0011 U	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	mg/kg			< 0.0013 U	< 0.0011 U	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	64	SL-1	< 0.0013 U	< 0.0011 U	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	0.0063	SL-1	< 0.0013 U	< 0.0011 U	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	0.0014	SL-3	< 0.0013 U	< 0.0011 U	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	800	SL-1	< 0.0013 U	< 0.0011 U	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	mg/kg	0.23	SL-1	< 0.0063 U	< 0.0055 U	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	mg/kg	0.5	SL-1	< 0.0013 U	< 0.0011 U	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	0.035	SL-8	< 0.0013 U	< 0.0011 U	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane (EDC)	mg/kg	0.35	SL-3	< 0.0016 U	< 0.0014 U	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	0.016	SL-3	< 0.0013 U	< 0.0011 U	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	800	SL-1	< 0.0013 U	< 0.0011 U	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	0.023	SL-3	< 0.0013 U	< 0.0011 U	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	mg/kg	0.0066	SL-3	< 0.0013 U	< 0.0011 U	--	--	--	--	--	--	--	--	--	--
1,4-Dichloro-2-Butene	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	0.11	SL-8	< 0.0013 U	< 0.0011 U	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	mg/kg			< 0.0013 U	< 0.0011 U	--	--	--	--	--	--	--	--	--	--
2-Butanone	mg/kg	350	SL-9	< 0.0063 U	< 0.0055 U	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl Vinyl Ether	mg/kg			< 0.0063 UJ	< 0.0055 UJ	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	1600	SL-1	< 0.0013 U	< 0.0011 U	--	--	--	--	--	--	--	--	--	--
2-Hexanone	mg/kg	400	SL-1	< 0.0063 UJ	< 0.0055 UJ	--	--	--	--	--	--	--	--	--	--
2-Pentanone	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	1600	SL-1	< 0.0013 U	< 0.0011 U	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone	mg/kg	6400	SL-1	< 0.0063 U	< 0.0055 U	--	--	--	--	--	--	--	--	--	--
Acetone	mg/kg	1.2	SL-9	< 0.013 U	< 0.011 U	--	--	--	--	--	--	--	--	--	--
Acrolein	mg/kg	0.0044	SL-3	--	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	mg/kg	0.00012	SL-3	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	mg/kg	640	SL-1	< 0.0013 UJ	< 0.0011 UJ	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	mg/kg			< 0.0013 U	< 0.0011 U	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	0.013	SL-3	< 0.0013 U	< 0.0011 U	--	--	--	--	--	--	--	--	--	--
Bromoform	mg/kg	0.078	SL-3	< 0.0063 U	< 0.0055 U	--	--	--	--	--	--	--	--	--	--
Bromomethane	mg/kg	0.24	SL-9	< 0.0086 UJ	< 0.0076 UJ	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	mg/kg	0.81	SL-9	< 0.0013 U	< 0.0011 U	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	0.0029	SL-3	< 0.0016 UJ	< 0.0014 UJ	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	mg/kg	1.7	SL-3	< 0.0013 U	< 0.0011 U	--	--	--	--	--	--	--	--	--	--
Chloroethane	mg/kg			< 0.0063 U	< 0.0055 U	--	--	--	--	--	--	--	--	--	--
Chloroform	mg/kg	0.81	SL-3	< 0.0013 U	< 0.0011 U	--	--	--	--	--	--	--	--	--	--
Chloromethane	mg/kg			< 0.0063 U	< 0.0055 U	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene (DCE)	mg/kg	24	SL-9	< 0.0013 U	< 0.0011 U	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	0.0056	SL-3	< 0.0013 U	< 0.0011 U	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	mg/kg	0.01	SL-3	< 0.0013 U	< 0.0011 U	--	--	--	--	--	--	--	--	--	--
Dibromomethane	mg/kg	800	SL-1	< 0.0013 U	< 0.0011 U	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg	16000	SL-1	< 0.0013 UJ	< 0.0011 UJ	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	mg/kg	8000	SL-1	< 0.0013 U	< 0.0011 U	--	--	--	--	--	--	--	--	--	--
m,p-Xylenes	mg/kg			< 0.0025 U	< 0.0022 U	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	mg/kg	560	SL-1	< 0.0013 U	< 0.0011 U	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	mg/kg	0.43	SL-3	< 0.0063 U	< 0.0055 U	--	--	--	--	--	--	--	--	--	--
Methyliodide	mg/kg			< 0.0063 U	< 0.0055 U	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	4000	SL-1	< 0.0013 U	< 0.0011 U	--	--	--	--	--	--	--	--	--	--
n-Hexane	mg/kg	4800	SL-1	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	8000	SL-1	< 0.0013 U	< 0.0011 U	--	--	--	--	--	--	--	--	--	--
o-Xylene	mg/kg			< 0.0013 U	< 0.0011 U	--	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene	mg/kg	320	SL-1	< 0.0013 U	< 0.0011 U	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	mg/kg	8000	SL-1	< 0.0016 UJ	< 0.0014 UJ	--	--	--	--	--	--	--	--	--	--
Styrene	mg/kg	4.7	SL-9	< 0.0013 U	< 0.0011 U	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	mg/kg	8000	SL-1	< 0.0013 U	< 0.0011 U	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	mg/kg	0.029	SL-3	< 0.0013 U	< 0.0011 U	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	0.78	SL-3	< 0.0013 U	< 0.0011 U	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	0.0056	SL-3	< 0.0013 U	< 0.0011 U	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	mg/kg	0.0044	SL-3	< 0.0013 U	< 0.0011 U	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg	24000	SL-1	< 0.0013 U	< 0.0011 U	--	--	--	--	--	--	--	--	--	--
Vinyl Acetate	mg/kg	80000	SL-1	< 0.0063 U	< 0.0055 U	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	0.0011	SL-3	< 0.0013 U	< 0.0011 U	--	--	--	--	--	--	--	--	--	--
Conventionals															
Total Organic Carbon	%			--	--	**0.945**	**0.721**	**1.25**	--	--	--	--	--	--	--
Total Solids	%			--	--	**85.5**	**89.2**	**84.8**	**87.3**	--	--	--	--	--	--

Table I.3.B. Vadose Soil Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL

				Location	B-04			HA-01		HA-02		HA-03	
				Date	11/17/17	11/17/17	11/17/17	03/11/21	03/11/21	03/11/21	03/11/21	09/20/22	09/20/22
				Sample	B-04-0-1	B-04-2-2.5	B-04-5-6	HA-1-0-1	HA-1-2-3	HA-2-0-1	HA-2-2-3	HA-03-0-1	HA-03-2-3
				Depth	0 - 1 ft	2 - 2.5 ft	5 - 6 ft	0 - 1 ft	2 - 3 ft	0 - 1 ft	2 - 3 ft	0 - 1 ft	2 - 3 ft
				Geologic Unit	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill
Analyte	Unit	Prelmiinary RI SL	Basis of SL										
Metals, Total													
Arsenic	mg/kg	7.3	SL-10	--	--	--	**7.4 J**	**4.87 J**	**6.57 J**	**3.81 J**	**6.61**	**1.33**
Barium	mg/kg	250	SL-10	--	--	--	--	--	--	--	--	--
Cadmium	mg/kg	0.77	SL-10	--	--	--	**3.25**	**0.68**	**3.4**	**0.96**	**0.634**	< 0.2 U
Chromium	mg/kg	67	SL-9	--	--	--	**65.4**	**18**	**71.3**	**23.2**	**9.31**	**5.76 J**
Copper	mg/kg	36	SL-10	--	--	--	**135**	**23.5**	**148**	**27.9**	**182**	**47**
Lead	mg/kg	120	SL-9	--	--	--	**426 J**	**129 J**	**512 J**	**179 J**	**73.3**	**7.09**
Mercury	mg/kg	0.07	SL-10	--	--	--	**1.96 J**	**0.253 J**	**2.42 J**	**0.676 J**	**0.1**	**0.06**
Nickel	mg/kg	48	SL-10	--	--	--	**23.3 J**	**13.3 J**	**18 J**	**8.98 J**	**8.6**	**5.21**
Selenium	mg/kg	0.78	SL-10	--	--	--	--	--	--	--	--	--
Silver	mg/kg	0.61	SL-10	--	--	--	--	--	--	--	--	--
Zinc	mg/kg	100	SL-3	--	--	--	**338**	**342**	**471**	**184**	**76**	**29.8**
Butyl Tins													
Dibutyltin Ion	mg/kg			--	--	--	**0.0802**	**0.0105**	**0.0243**	< 0.0057 U	**0.176**	**0.0922**
Monobutyltin	mg/kg			--	--	--	**0.0505**	**0.00619**	**0.0165**	**0.00342 J**	**0.186**	**0.0412**
Tetrabutyltin	mg/kg			--	--	--	< 0.00494 U	< 0.00498 U	< 0.00495 U	< 0.00493 U	< 0.00492 U	< 0.00497 U
Tributyltin Ion	mg/kg	0.0021	SL-8	--	--	--	**0.0507**	**0.000985 J**	**0.0103**	< 0.0038 U	**0.114**	**0.0274**
Polychlorinated Biphenyl (PCB) Aroclors													
Total PCB Aroclors (ND = 0)	mg/kg	1.10E-05	SL-3	**1.34 A**	**28.3 A**	**44 A**	**7.24**	**6.57**	**8.31**	**7.18**	--	--
Polychlorinated Biphenyl (PCB) Congeners													
Total PCB Congeners (ND = 0)	mg/kg	1.10E-05	SL-3	--	--	**107 J**	--	--	--	--	--	--
Total PCB TEQ (ND = 0)	mg/kg	6.90E-09	SL-3	--	--	**1.92E-03 J**	--	--	--	--	--	--
Dioxins/Furans													
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	5.20E-06	SL-10	--	--	--	--	--	--	--	--	--
2,3,7,8-TCDD	mg/kg	5.20E-06	SL-10	--	--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)													
1-Methylnaphthalene	mg/kg	20	SL-1	--	--	--	**0.0168**	**0.0225**	**0.0234**	**0.00237 J**	--	--
2-Methylnaphthalene	mg/kg	0.67	SL-8	--	--	--	**0.028**	**0.0355**	**0.0278**	**0.00543**	--	--
Acenaphthene	mg/kg	0.5	SL-8	--	--	--	**0.0057 J**	**0.00306 J**	**0.00496 J**	< 0.005 U	--	--
Acenaphthylene	mg/kg	1.3	SL-8	--	--	--	< 0.015 U	**0.00627**	**0.00989 J**	**0.00211 J**	--	--
Anthracene	mg/kg	0.96	SL-8	--	--	--	**0.00908 J**	**0.0139**	**0.00793 J**	**0.00397 J**	--	--
Benzo(g,h,i)perylene	mg/kg	0.67	SL-8	--	--	--	**0.0985**	**0.108**	**0.0726**	**0.0307**	--	--
Fluoranthene	mg/kg	1.7	SL-8	--	--	--	**0.11**	**0.053**	**0.1**	**0.00458 J**	--	--
Fluorene	mg/kg	0.54	SL-8	--	--	--	**0.0104 J**	**0.0054**	**0.00625 J**	< 0.005 U	--	--
Naphthalene	mg/kg	0.039	SL-3	--	--	--	**0.0412**	< 0.00623 U	**0.0286**	**0.00374 J**	--	--
Phenanthrene	mg/kg	1.5	SL-8	--	--	--	**0.0656**	**0.0541**	**0.246**	**0.00447 J**	--	--
Pyrene	mg/kg	2.6	SL-8	--	--	--	**0.106**	**0.0589**	**0.103**	**0.00481 J**	--	--
Benz(a)anthracene	mg/kg	0.73	SL-9	--	--	--	**0.0469**	**0.0222**	**0.0359**	**0.00204 J**	--	--
Benzo(a)pyrene	mg/kg	0.00031	SL-3	--	--	--	**0.0723**	**0.0412**	**0.0528**	**0.00336 J**	--	--
Benzo(b)fluoranthene	mg/kg	44	SL-9	--	--	--	**0.0823**	**0.0618**	**0.0588**	**0.00624**	--	--
Benzo(j)fluoranthene	mg/kg			--	--	--	**0.0427**	**0.0324**	**0.0284**	**0.00335 J**	--	--
Benzo(j,k)fluoranthene	mg/kg			--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	mg/kg	71	SL-9	--	--	--	**0.0401**	**0.023**	**0.0268**	**0.00235 J**	--	--
Chrysene	mg/kg	1.4	SL-8	--	--	--	**0.0825**	**0.0622**	**0.071**	**0.00548**	--	--
Dibenzo(a,h)anthracene	mg/kg	0.23	SL-8	--	--	--	**0.0168**	**0.0136**	**0.0131 J**	**0.00226 J**	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	0.6	SL-8	--	--	--	**0.0681**	**0.0744**	**0.0516**	**0.0084**	--	--
Total Benzofluoranthenes	mg/kg	1.1	SL-9	--	--	--	**0.164**	**0.116**	**0.117**	**0.0125**	--	--
Total HPAHs (ND = 1/2 RDL)	mg/kg	1.1	SL-9	--	--	--	**0.766**	**0.551**	**0.614 J**	**0.0736 J**	--	--
Total LPAHs (ND = 1/2 RDL)	mg/kg	5.2	SL-8	--	--	--	**0.139 J**	**0.0858 J**	**0.304 J**	**0.0193 J**	--	--
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	0.00031	SL-3	--	--	--	**0.0985**	**0.0613**	**0.0721 J**	**0.00554 J**	--	--
Semivolatile Organic Compounds (SVOCs)													
1,2-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	mg/kg	0.00068	SL-3	--	--	--	--	--	--	--	--	--
1,3-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--
1,4-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	mg/kg	2400	SL-1	--	--	--	--	--	--	--	--	--
2,3,5,6-Tetrachlorophenol	mg/kg			--	--	--	--	--	--	--	--	--
2,3-Dichloroaniline	mg/kg			--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	mg/kg	22	SL-3	--	--	--	< 0.0999 U	< 0.0996 U	< 0.0998 U	< 0.0994 U	--	--
2,4,6-Trichlorophenol	mg/kg	0.0033	SL-3	--	--	--	< 0.0999 U	**0.026 J**	< 0.0998 U	< 0.0994 U	--	--
2,4-Dichlorophenol	mg/kg	0.069	SL-3	--	--	--	< 0.0999 U	< 0.0996 U	< 0.0998 U	< 0.0994 U	--	--
2,4-Dimethylphenol	mg/kg	0.029	SL-8	--	--	--	< 0.0999 U	< 0.0996 U	< 0.0998 U	< 0.0994 U	--	--
2,4-Dinitrophenol	mg/kg	0.061	SL-9	--	--	--	< 0.2 UJ	< 0.199 UJ	< 0.2 UJ	< 0.199 UJ	--	--
2,4-Dinitrotoluene	mg/kg	0.0028	SL-3	--	--	--	< 0.0999 U	< 0.0996 U	< 0.0998 U	< 0.0994 U	--	--
2,6-Dinitrotoluene	mg/kg	0.67	SL-1	--	--	--	< 0.0999 U	< 0.0996 U	< 0.0998 U	< 0.0994 U	--	--
2-Chloronaphthalene	mg/kg	5.4	SL-3	--	--	--	< 0.02 U	< 0.0199 U	< 0.02 U	< 0.0199 U	--	--
2-Chlorophenol	mg/kg	0.2	SL-3	--	--	--	< 0.02 U	< 0.0199 U	< 0.02 U	< 0.0199 U	--	--
2-Methylphenol	mg/kg	0.063	SL-8	--	--	--	< 0.02 U	< 0.0199 U	< 0.02 U	< 0.0199 U	--	--
2-Nitroaniline	mg/kg	800	SL-1	--	--	--	< 0.0999 U	< 0.0996 U	< 0.0998 U	< 0.0994 U	--	--
2-Nitrophenol	mg/kg			--	--	--	< 0.02 U	< 0.0199 U	< 0.02 U	< 0.0199 U	--	--
3 & 4 Methylphenol	mg/kg			--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	mg/kg	2.20E-04	SL-3	--	--	--	< 0.0999 U	< 0.0996 U	< 0.0998 U	< 0.0994 U	--	--
3-Nitroaniline	mg/kg			--	--	--	< 0.0999 U	< 0.0996 U	< 0.0998 U	< 0.0994 U	--	--
4,6-Dinitro-2-methylphenol	mg/kg	0.13	SL-3	--	--	--	< 0.2 U	< 0.199 U	< 0.2 U	< 0.199 U	--	--
4-Bromophenyl phenyl ether	mg/kg			--	--	--	< 0.02 U	< 0.0199 U	< 0.02 U	< 0.0199 U	--	--
4-Chloro-3-methylphenol	mg/kg	0.5	SL-3	--	--	--	< 0.0999 U	< 0.0996 U	< 0.0998 U	< 0.0994 U	--	--
4-Chloroaniline	mg/kg	5	SL-1	--	--	--	< 0.0999 U	< 0.0996 U	< 0.0998 U	< 0.0994 U	--	--
4-Chlorophenyl phenyl ether	mg/kg			--	--	--	< 0.02 U	< 0.0199 U	< 0.02 U	< 0.0199 U	--	--
4-Methylphenol	mg/kg	0.67	SL-8	--	--	--	**0.021**	**0.0189 J**	< 0.02 U	< 0.0199 U	--	--
4-Nitroaniline	mg/kg	22	SL-9	--	--	--	**1.77**	**1.29**	**2.55**	**0.189**	--	--
4-Nitrophenol	mg/kg			--	--	--	< 0.0999 U	< 0.0996 U	< 0.0998 U	< 0.0994 U	--	--
Aniline	mg/kg	180	SL-1	--	--	--	--	--	--	--	--	--
Benzoic acid	mg/kg	0.65	SL-8	--	--	--	**0.112 J**	< 0.199 U	**0.067 J**	< 0.199 U	--	--
Benzyl alcohol	mg/kg	0.057	SL-8	--	--	--	**0.034**	< 0.0199 U	**0.531**	< 0.0199 U	--	--
Benzyl butyl phthalate	mg/kg	0.0036	SL-3	--	--	--	**0.0616 J**	< 0.0199 U	**0.0919 J**	< 0.0199 U	--	--
Bis(2-chloro-1-methylethyl) ether	mg/kg	0.59	SL-3	--	--	--	< 0.02 U	< 0.0199 U	< 0.02 U	< 0.0199 U	--	--
Bis(2-chloroethoxy)methane	mg/kg	240	SL-1	--	--	--	< 0.02 U	< 0.0199 U	< 0.02 U	< 0.0199 U	--	--
Bis(2-chloroethyl) ether	mg/kg	0.00033	SL-3	--	--	--	< 0.02 U	< 0.0199 U	< 0.02 U	< 0.0199 U	--	--
bis(2-Chloroisopropyl)ether	mg/kg			--	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) adipate	mg/kg	830	SL-1	--	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate	mg/kg	0.02	SL-9	--	--	--	**0.475**	**0.059**	**0.264**	< 0.0497 U	--	--
Carbazole	mg/kg	79	SL-9	--	--	--	< 0.02 U	< 0.0199 U	< 0.02 U	< 0.0199 U	--	--
Dibenzofuran	mg/kg	0.54	SL-8	--	--	--	**0.0111 J**	**0.0101**	**0.00626 J**	**0.00162 J**	--	--
Diethyl phthalate	mg/kg	0.2	SL-8	--	--	--	**0.0286**	< 0.0199 U	< 0.02 U	**0.0185 J**	--	--
Dimethyl phthalate	mg/kg	0.071	SL-8	--	--	--	**0.543**	**0.012 J**	**0.0792**	< 0.0199 U	--	--
Di-n-butyl phthalate	mg/kg	0.011	SL-9	--	--	--	**0.395**	**0.0196 J**	**0.1**	**0.0054 J**	--	--
Di-n-octyl phthalate	mg/kg	0.91	SL-9	--	--	--	**0.0165 J**	< 0.0199 U	< 0.02 U	< 0.0199 U	--	--
Hexachlorobenzene	mg/kg	8.00E-06	SL-3	--	--	--	< 0.00998 U	< 0.0005 U	< 0.01 U	< 0.00249 U	--	--
Hexachlorobutadiene	mg/kg	0.00021	SL-3	--	--	--	< 0.00533 UJ	< 0.0005 U	< 0.00828 UJ	< 0.00249 U	--	--
Hexachlorocyclopentadiene	mg/kg	0.032	SL-3	--	--	--	< 0.0999 UJ	< 0.0996 UJ	< 0.0998 UJ	< 0.0994 UJ	--	--
Hexachloroethane	mg/kg	0.00016	SL-3	--	--	--	< 0.02 U	< 0.0199 U	**0.0143 J**	< 0.0199 U	--	--
Isophorone	mg/kg	0.58	SL-3	--	--	--	**0.0282 J**	< 0.0199 U	**0.0094 J**	< 0.0199 U	--	--
Nitrobenzene	mg/kg	0.64	SL-3	--	--	--	**0.106**	**0.0307**	**0.143**	< 0.0199 U	--	--
N-Nitrosodimethylamine	mg/kg	0.0015	SL-3	--	--	--	--	--	--	--	--	--
N-Nitroso-di-n-propylamine	mg/kg	0.00055	SL-3	--	--	--	< 0.02 U	< 0.0199 U	< 0.02 U	< 0.0199 U	--	--
N-Nitrosodiphenylamine	mg/kg	0.028	SL-8	--	--	--	< 0.02 U	< 0.0199 U	< 0.02 U	< 0.0199 U	--	--
Pentachlorophenol	mg/kg	3.20E-05	SL-3	--	--	--	**0.473 J**	**1.08 J**	**0.385 J**	**0.0652 J**	--	--
Phenol	mg/kg	0.42	SL-8	--	--	--	**0.0302**	**0.0214**	**0.0311**	**0.0136 J**	--	--
Pyridine	mg/kg	80	SL-1	--	--	--	--	--	--	--	--	--

Table I.3.B. Vadose Soil Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL

Location				B-04			HA-01		HA-02		HA-03	
Date				11/17/17	11/17/17	11/17/17	03/11/21	03/11/21	03/11/21	03/11/21	09/20/22	09/20/22
Sample				B-04-0-1	B-04-2-2.5	B-04-5-6	HA-1-0-1	HA-1-2-3	HA-2-0-1	HA-2-2-3	HA-03-0-1	HA-03-2-3
Depth				0 - 1 ft	2 - 2.5 ft	5 - 6 ft	0 - 1 ft	2 - 3 ft	0 - 1 ft	2 - 3 ft	0 - 1 ft	2 - 3 ft
Geologic Unit				Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill
Analyte	Unit	Prelmiinary RI SL	Basis of SL									
Pesticides												
2,4'-DDD	mg/kg			--	--	--	< 7.98 U	< 0.00399 U	< 11.1 U	< 0.329 U	--	--
2,4'-DDE	mg/kg			--	--	--	< 9.98 U	< 0.022 U	< 8.88 U	< 1.11 U	--	--
2,4'-DDT	mg/kg			--	--	--	< 0.02 U	< 0.001 U	< 0.02 U	< 0.00498 U	--	--
4,4'-DDD	mg/kg	7.30E-06	SL-3	--	--	--	< 0.02 U	< 0.001 U	< 0.02 U	< 0.00498 U	**0.0091**	< 0.001 U
4,4'-DDE	mg/kg	1.50E-06	SL-3	--	--	--	< 1.8 U	< 0.001 U	< 6.66 U	< 0.329 U	**0.0092**	**0.001 J**
4,4'-DDT	mg/kg	1.60E-05	SL-3	--	--	--	< 0.02 U	< 0.001 U	< 15.5 U	< 0.553 U	**0.017**	**0.0018 J**
Aldrin	mg/kg	4.00E-08	SL-3	--	--	--	< 0.998 U	< 0.0005 U	< 0.88 U	< 0.00249 U	< 0.0017 U	< 0.0017 U
Alpha-BHC	mg/kg	1.90E-06	SL-3	--	--	--	< 0.00998 U	< 0.0005 U	< 0.44 U	< 0.00249 U	**0.032 J**	**0.0052 J**
Beta-BHC	mg/kg	6.60E-05	SL-3	--	--	--	< 0.00998 U	< 0.0005 U	< 0.01 U	< 0.00249 U	< 0.0005 U	< 0.0005 UJ
Chlordane	mg/kg	2.30E-05	SL-3	--	--	--	--	--	--	--	--	--
cis-Chlordane	mg/kg	0.0001	SL-8	--	--	--	< 5.99 U	< 0.00798 U	< 1.98 U	< 0.00249 U	< 0.0005 U	< 0.0005 UJ
cis-Nonachlor	mg/kg			--	--	--	< 0.02 U	< 0.001 U	< 4.44 U	< 0.00498 U	--	--
Delta-BHC	mg/kg	0.0048	SL-1	--	--	--	< 0.00998 U	< 0.002 U	< 0.01 U	< 0.00249 U	< 0.0005 U	< 0.0005 UJ
Dieldrin	mg/kg	3.60E-08	SL-3	--	--	--	< 0.02 U	< 0.001 U	< 11.1 U	< 1.11 U	< 0.001 U	< 0.001 UJ
Endosulfan I	mg/kg	0.0012	SL-3	--	--	--	< 0.00998 U	< 0.0005 U	< 0.01 U	< 0.00249 U	< 0.0005 U	< 0.0005 UJ
Endosulfan II	mg/kg	0.0012	SL-3	--	--	--	< 3.99 U	< 0.001 U	< 1.98 U	< 0.274 U	< 0.001 U	< 0.001 U
Endosulfan Sulfate	mg/kg	2	SL-3	--	--	--	< 0.02 U	< 0.001 U	< 0.02 U	< 0.00498 U	< 0.001 U	< 0.001 U
Endrin	mg/kg	0.00044	SL-3	--	--	--	< 9.98 UJ	< 0.001 UJ	< 6.66 UJ	< 0.00498 UJ	< 0.001 U	< 0.001 UJ
Endrin Aldehyde	mg/kg	0.0024	SL-3	--	--	--	< 3.99 U	< 0.00499 U	< 2.22 U	< 0.11 U	< 0.001 U	< 0.001 U
Endrin ketone	mg/kg			--	--	--	< 0.02 U	< 0.001 U	< 0.02 U	< 0.00498 U	< 0.001 U	< 0.001 UJ
Heptachlor	mg/kg	6.60E-08	SL-3	--	--	--	< 0.00998 U	< 0.0005 U	< 0.01 U	< 0.00249 U	< 0.0005 U	< 0.0005 UJ
Heptachlor Epoxide	mg/kg	4.90E-07	SL-3	--	--	--	< 0.00998 U	< 0.0005 U	< 0.01 U	< 0.00249 U	< 0.0005 U	< 0.0005 UJ
Lindane	mg/kg	0.0039	SL-3	--	--	--	< 0.00998 U	< 0.0005 U	< 0.01 U	< 0.00249 U	< 0.0005 U	< 0.0005 UJ
Methoxychlor	mg/kg	0.032	SL-3	--	--	--	< 12 U	< 0.00499 U	< 0.1 U	< 0.0249 U	< 0.005 U	< 0.005 U
Mirex	mg/kg	0.0071	SL-3	--	--	--	< 0.02 U	< 0.001 U	< 0.02 U	< 0.00498 U	--	--
Oxychlordane	mg/kg			--	--	--	< 0.02 U	< 0.001 U	< 0.02 U	< 0.00498 U	--	--
Toxaphene	mg/kg	6.10E-05	SL-3	--	--	--	--	--	--	--	< 0.025 U	< 0.025 U
trans-Chlordane	mg/kg	0.0001	SL-8	--	--	--	< 0.00998 U	< 0.0005 U	< 0.88 U	< 0.00249 U	< 0.0017 U	< 0.0017 U
trans-Nonachlor	mg/kg			--	--	--	< 3.99 U	< 0.00399 U	< 0.02 U	< 0.00498 U	--	--
Total Petroleum Hydrocarbons (TPH)												
Gasoline Range Organics	mg/kg	30	SL-3	--	--	--	< 5.35 U	< 6.37 U	< 7.01 U	**17.2**	--	--
Diesel Range Organics	mg/kg	2000	SL-9	--	--	--	**144**	**986**	**124**	**464**	--	--
Motor Oil Range Organics	mg/kg	2000	SL-9	--	--	--	**579**	**2840**	**593**	**1670**	--	--
Diesel and Oil Extended Range Organics	mg/kg	2000	SL-9	--	--	--	**723**	**3830**	**717**	**2130**	--	--
Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)												
Benzene	mg/kg	0.0088	SL-3	--	--	--	**0.00096 J**	< 0.00125 U	< 0.00166 U	< 0.00117 U	--	--
Toluene	mg/kg	0.72	SL-3	--	--	--	**0.00678**	**0.00122 J**	**0.00442**	< 0.00117 U	--	--
Ethylbenzene	mg/kg	0.18	SL-3	--	--	--	< 0.00107 U	< 0.00125 U	< 0.00166 U	< 0.00117 U	--	--
Total Xylenes	mg/kg	0.94	SL-3	--	--	--	**0.00847**	< 0.00249 U	**0.00163 J**	< 0.00234 U	--	--
Volatile Organic Compounds (VOCs)												
1,1,1,2-Tetrachloroethane	mg/kg	38	SL-1	--	--	--	< 0.00107 U	< 0.00125 U	< 0.00166 U	< 0.00117 U	--	--
1,1,1-Trichloroethane	mg/kg	370	SL-3	--	--	--	< 0.00107 U	< 0.00125 U	< 0.00166 U	< 0.00117 U	--	--
1,1,2 - Trichlorotrifluoroethane	mg/kg	2400000	SL-1	--	--	--	< 0.00213 U	< 0.00249 U	< 0.00331 U	< 0.00234 U	--	--
1,1,2,2-Tetrachloroethane	mg/kg	0.0017	SL-3	--	--	--	< 0.00107 U	< 0.00125 U	< 0.00166 U	< 0.00117 U	--	--
1,1,2-Trichloroethane	mg/kg	0.005	SL-3	--	--	--	< 0.00107 U	< 0.00125 U	< 0.00166 U	< 0.00117 U	--	--
1,1-Dichloroethane	mg/kg	180	SL-1	--	--	--	< 0.00107 U	< 0.00125 U	< 0.00166 U	< 0.00117 U	--	--
1,1-Dichloroethene	mg/kg	11	SL-9	--	--	--	< 0.00107 U	< 0.00125 U	< 0.00166 U	< 0.00117 U	--	--
1,1-Dichloropropene	mg/kg			--	--	--	< 0.00107 U	< 0.00125 U	< 0.00166 U	< 0.00117 U	--	--
1,2,3-Trichlorobenzene	mg/kg	64	SL-1	--	--	--	< 0.00533 U	< 0.00623 U	< 0.00828 U	< 0.00584 U	--	--
1,2,3-Trichloropropane	mg/kg	0.0063	SL-1	--	--	--	< 0.00213 U	< 0.00249 U	< 0.00331 U	< 0.00234 U	--	--
1,2,4-Trichlorobenzene	mg/kg	0.0014	SL-3	--	--	--	< 0.00533 U	< 0.00623 U	< 0.00828 U	< 0.00584 U	--	--
1,2,4-Trimethylbenzene	mg/kg	800	SL-1	--	--	--	< 0.00107 U	< 0.00125 U	< 0.00166 U	< 0.00117 U	--	--
1,2-Dibromo-3-chloropropane	mg/kg	0.23	SL-1	--	--	--	< 0.00533 U	< 0.00623 U	< 0.00828 U	< 0.00584 U	--	--
1,2-Dibromoethane (EDB)	mg/kg	0.5	SL-1	--	--	--	< 0.00107 U	< 0.00125 U	< 0.00166 U	< 0.00117 U	--	--
1,2-Dichlorobenzene	mg/kg	0.035	SL-8	--	--	--	< 0.00107 U	< 0.00125 U	< 0.00166 U	< 0.00117 U	--	--
1,2-Dichloroethane (EDC)	mg/kg	0.35	SL-3	--	--	--	< 0.00107 U	< 0.00125 U	< 0.00166 U	< 0.00117 U	--	--
1,2-Dichloropropane	mg/kg	0.016	SL-3	--	--	--	< 0.00107 U	< 0.00125 U	< 0.00166 U	< 0.00117 U	--	--
1,3,5-Trimethylbenzene	mg/kg	800	SL-1	--	--	--	< 0.00107 U	< 0.00125 U	< 0.00166 U	< 0.00117 U	--	--
1,3-Dichlorobenzene	mg/kg	0.023	SL-3	--	--	--	< 0.00107 U	< 0.00125 U	< 0.00166 U	< 0.00117 U	--	--
1,3-Dichloropropane	mg/kg	0.0066	SL-3	--	--	--	< 0.00107 U	< 0.00125 U	< 0.00166 U	< 0.00117 U	--	--
1,4-Dichloro-2-Butene	mg/kg			--	--	--	< 0.00533 U	< 0.00623 U	< 0.00828 U	< 0.00584 U	--	--
1,4-Dichlorobenzene	mg/kg	0.11	SL-8	--	--	--	< 0.00107 U	< 0.00125 U	< 0.00166 U	< 0.00117 U	--	--
2,2-Dichloropropane	mg/kg			--	--	--	< 0.00107 U	< 0.00125 U	< 0.00166 U	< 0.00117 U	--	--
2-Butanone	mg/kg	350	SL-9	--	--	--	< 0.00533 U	< 0.00623 U	**0.0561**	< 0.00584 U	--	--
2-Chloroethyl Vinyl Ether	mg/kg			--	--	--	< 0.00533 UJ	< 0.00623 UJ	< 0.00828 UJ	< 0.00584 UJ	--	--
2-Chlorotoluene	mg/kg	1600	SL-1	--	--	--	< 0.00107 U	< 0.00125 U	< 0.00166 U	< 0.00117 U	--	--
2-Hexanone	mg/kg	400	SL-1	--	--	--	< 0.00533 U	< 0.00623 U	< 0.00828 U	< 0.00584 U	--	--
2-Pentanone	mg/kg			--	--	--	< 0.00533 U	< 0.00623 U	< 0.00828 U	< 0.00584 U	--	--
4-Chlorotoluene	mg/kg	1600	SL-1	--	--	--	< 0.00107 U	< 0.00125 U	< 0.00166 U	< 0.00117 U	--	--
4-Methyl-2-pentanone	mg/kg	6400	SL-1	--	--	--	< 0.00533 U	< 0.00623 U	< 0.00828 U	< 0.00584 U	--	--
Acetone	mg/kg	1.2	SL-9	--	--	--	**0.178**	**0.106**	**0.483**	**0.0975**	--	--
Acrolein	mg/kg	0.0044	SL-3	--	--	--	< 0.00533 U	< 0.00623 U	< 0.00828 U	< 0.00584 U	--	--
Acrylonitrile	mg/kg	0.00012	SL-3	--	--	--	< 0.00533 U	< 0.00623 U	< 0.00828 U	< 0.00584 U	--	--
Bromobenzene	mg/kg	640	SL-1	--	--	--	< 0.00107 U	< 0.00125 U	< 0.00166 U	< 0.00117 U	--	--
Bromochloromethane	mg/kg			--	--	--	< 0.00107 U	< 0.00125 U	< 0.00166 U	< 0.00117 U	--	--
Bromodichloromethane	mg/kg	0.013	SL-3	--	--	--	< 0.00107 U	< 0.00125 U	< 0.00166 U	< 0.00117 U	--	--
Bromoform	mg/kg	0.078	SL-3	--	--	--	< 0.00107 U	< 0.00125 U	< 0.00166 U	< 0.00117 U	--	--
Bromomethane	mg/kg	0.24	SL-9	--	--	--	< 0.00107 U	< 0.00125 U	< 0.00166 U	< 0.00117 U	--	--
Carbon Disulfide	mg/kg	0.81	SL-9	--	--	--	< 0.00107 U	< 0.00125 U	< 0.00166 U	< 0.00117 U	--	--
Carbon Tetrachloride	mg/kg	0.0029	SL-3	--	--	--	< 0.00107 U	< 0.00125 U	< 0.00166 U	< 0.00117 U	--	--
Chlorobenzene	mg/kg	1.7	SL-3	--	--	--	< 0.00107 U	< 0.00125 U	< 0.00166 U	< 0.00117 U	--	--
Chloroethane	mg/kg			--	--	--	< 0.00213 U	< 0.00249 U	< 0.00331 U	< 0.00234 U	--	--
Chloroform	mg/kg	0.81	SL-3	--	--	--	< 0.00107 U	< 0.00125 U	< 0.00166 U	< 0.00117 U	--	--
Chloromethane	mg/kg			--	--	--	< 0.00107 U	< 0.00125 U	< 0.00166 U	< 0.00117 U	--	--
cis-1,2-Dichloroethene (DCE)	mg/kg	24	SL-9	--	--	--	< 0.00107 U	< 0.00125 U	< 0.00166 U	< 0.00117 U	--	--
cis-1,3-Dichloropropene	mg/kg	0.0056	SL-3	--	--	--	< 0.00107 U	< 0.00125 U	< 0.00166 U	< 0.00117 U	--	--
Dibromochloromethane	mg/kg	0.01	SL-3	--	--	--	< 0.00107 U	< 0.00125 U	< 0.00166 U	< 0.00117 U	--	--
Dibromomethane	mg/kg	800	SL-1	--	--	--	< 0.00107 U	< 0.00125 U	< 0.00166 U	< 0.00117 U	--	--
Dichlorodifluoromethane	mg/kg	16000	SL-1	--	--	--	< 0.00107 U	< 0.00125 U	< 0.00166 U	< 0.00117 U	--	--
Isopropylbenzene	mg/kg	8000	SL-1	--	--	--	< 0.00107 U	< 0.00125 U	< 0.00166 U	< 0.00117 U	--	--
m,p-Xylenes	mg/kg			--	--	--	**0.00605**	< 0.00249 U	**0.00163 J**	< 0.00234 U	--	--
Methyl tert-butyl ether (MTBE)	mg/kg	560	SL-1	--	--	--	< 0.00107 U	< 0.00125 U	< 0.00166 U	< 0.00117 U	--	--
Methylene Chloride	mg/kg	0.43	SL-3	--	--	--	< 0.00533 U	< 0.00623 U	< 0.00828 U	< 0.00584 U	--	--
Methyliodide	mg/kg			--	--	--	< 0.00107 U	< 0.00125 U	< 0.00166 U	< 0.00117 U	--	--
n-Butylbenzene	mg/kg	4000	SL-1	--	--	--	< 0.00107 U	< 0.00125 U	< 0.00166 U	< 0.00117 U	--	--
n-Hexane	mg/kg	4800	SL-1	--	--	--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	8000	SL-1	--	--	--	< 0.00107 U	< 0.00125 U	< 0.00166 U	< 0.00117 U	--	--
o-Xylene	mg/kg			--	--	--	**0.00242**	< 0.00125 U	< 0.00166 U	< 0.00117 U	--	--
p-Isopropyltoluene	mg/kg	320	SL-1	--	--	--	< 0.00107 U	< 0.00125 U	< 0.00166 U	< 0.00117 U	--	--
sec-Butylbenzene	mg/kg	8000	SL-1	--	--	--	< 0.00107 U	< 0.00125 U	< 0.00166 U	< 0.00117 U	--	--
Styrene	mg/kg	4.7	SL-9	--	--	--	< 0.00107 U	< 0.00125 U	< 0.00166 U	< 0.00117 U	--	--
tert-Butylbenzene	mg/kg	8000	SL-1	--	--	--	< 0.00107 U	< 0.00125 U	< 0.00166 U	< 0.00117 U	--	--
Tetrachloroethene (PCE)	mg/kg	0.029	SL-3	--	--	--	**0.00956**	**0.0142**	**0.0325**	**0.00485**	--	--
trans-1,2-Dichloroethene	mg/kg	0.78	SL-3	--	--	--	< 0.00107 U	< 0.00125 U	< 0.00166 U	< 0.00117 U	--	--
trans-1,3-Dichloropropene	mg/kg	0.0056	SL-3	--	--	--	< 0.00107 U	< 0.00125 U	< 0.00166 U	< 0.00117 U	--	--
Trichloroethene (TCE)	mg/kg	0.0044	SL-3	--	--	--	**0.00285**	< 0.00125 U	**0.00186**	< 0.00117 U	--	--
Trichlorofluoromethane	mg/kg	24000	SL-1	--	--	--	< 0.00213 U	< 0.00249 U	< 0.00331 U	< 0.00234 U	--	--
Vinyl Acetate	mg/kg	80000	SL-1	--	--	--	< 0.00533 UJ	< 0.00623 UJ	< 0.00828 UJ	< 0.00584 UJ	--	--
Vinyl Chloride	mg/kg	0.0011	SL-3	--	--	--	< 0.00107 U	< 0.00125 U	< 0.00166 U	< 0.00117 U	--	--
Conventionals												
Total Organic Carbon	%			--	--	--	**1.76**	**2.02**	**2.75**	**1.3**	--	--
Total Solids	%			--	--	--	**91.0**	**89.8**	**81.7**	**91**	--	--

Table I.3.B. Vadose Soil Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL

				Location	HA-04		HA-05			HA-06		HA-07		
				Date	09/20/22	09/20/22	09/20/22	09/20/22	09/20/22	09/20/22	09/20/22	09/20/22	09/20/22	09/20/22
				Sample	HA-04-0-1	HA-04-2-3	HA-05-0-1	HA-05-0-1-TIG	HA-05-2-3	HA-06-0-1	HA-06-2-3	HA-07-0-1	HA-07-0-1-TIG	HA-07-2-3
				Depth	0 - 1 ft	2 - 3 ft	0 - 1 ft	0 - 1 ft	2 - 3 ft	0 - 1 ft	2 - 3 ft	0 - 1 ft	0 - 1 ft	2 - 3 ft
				Geologic Unit	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill
Analyte	Unit	Prelmiinary RI SL	Basis of SL											
Metals, Total														
Arsenic	mg/kg	7.3	SL-10	**2.17**	**6.29**	--	--	--	--	--	--	--	--	--
Barium	mg/kg	250	SL-10	--	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/kg	0.77	SL-10	**0.207**	**0.339**	--	--	--	--	--	--	--	--	--
Chromium	mg/kg	67	SL-9	**7.87**	**12.2**	--	--	--	--	--	--	--	--	--
Copper	mg/kg	36	SL-10	**22**	**26.9**	--	--	--	--	--	--	--	--	--
Lead	mg/kg	120	SL-9	**27.5**	**97.6**	--	--	--	--	--	--	--	--	--
Mercury	mg/kg	0.07	SL-10	**0.068**	**0.096**	--	--	--	--	--	--	--	--	--
Nickel	mg/kg	48	SL-10	**5.91**	**7.64**	--	--	--	--	--	--	--	--	--
Selenium	mg/kg	0.78	SL-10	--	--	--	--	--	--	--	--	--	--	--
Silver	mg/kg	0.61	SL-10	--	--	--	--	--	--	--	--	--	--	--
Zinc	mg/kg	100	SL-3	**42.6**	**51.1**	--	--	--	--	--	--	--	--	--
Butyl Tins														
Dibutyltin Ion	mg/kg			**0.0026 J**	< 0.00576 U	**0.0118**	--	**0.00849**	**0.00775**	< 0.00578 U	**0.0429 J**	--	**0.0571**	
Monobutyltin	mg/kg			**0.00221 J**	< 0.00406 U	**0.00588**	--	**0.0148**	**0.00498**	< 0.00408 U	**0.0171**	--	**0.033**	
Tetrabutyltin	mg/kg			< 0.00487 U	< 0.00498 U	< 0.00492 U	--	< 0.005 U	< 0.00488 U	< 0.005 U	< 0.00488 U	--	< 0.00497 U	
Tributyltin Ion	mg/kg	0.0021	SL-8	**0.00652**	< 0.00384 U	**0.0134**	--	**0.00786**	**0.0299**	< 0.00386 U	**0.0894 J**	--	**0.0333**	
Polychlorinated Biphenyl (PCB) Aroclors														
Total PCB Aroclors (ND = 0)	mg/kg	1.10E-05	SL-3	--	--	--	--	--	--	--	--	--	--	
Polychlorinated Biphenyl (PCB) Congeners														
Total PCB Congeners (ND = 0)	mg/kg	1.10E-05	SL-3	--	--	--	--	--	--	--	--	--	--	
Total PCB TEQ (ND = 0)	mg/kg	6.90E-09	SL-3	--	--	--	--	--	--	--	--	--	--	
Dioxins/Furans														
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	5.20E-06	SL-10	--	--	--	**5.19E-06**	--	--	--	--	**3.13E-06**	--	
2,3,7,8-TCDD	mg/kg	5.20E-06	SL-10	--	--	--	< 4.96E-07 U	--	--	--	--	< 4.94E-07 U	--	
Polycyclic Aromatic Hydrocarbons (PAHs)														
1-Methylnaphthalene	mg/kg	20	SL-1	--	--	--	--	--	--	--	--	--	--	
2-Methylnaphthalene	mg/kg	0.67	SL-8	--	--	--	--	--	--	--	--	--	--	
Acenaphthene	mg/kg	0.5	SL-8	--	--	--	--	--	--	--	--	--	--	
Acenaphthylene	mg/kg	1.3	SL-8	--	--	--	--	--	--	--	--	--	--	
Anthracene	mg/kg	0.96	SL-8	--	--	--	--	--	--	--	--	--	--	
Benzo(g,h,i)perylene	mg/kg	0.67	SL-8	--	--	--	--	--	--	--	--	--	--	
Fluoranthene	mg/kg	1.7	SL-8	--	--	--	--	--	--	--	--	--	--	
Fluorene	mg/kg	0.54	SL-8	--	--	--	--	--	--	--	--	--	--	
Naphthalene	mg/kg	0.039	SL-3	--	--	--	--	--	--	--	--	--	--	
Phenanthrene	mg/kg	1.5	SL-8	--	--	--	--	--	--	--	--	--	--	
Pyrene	mg/kg	2.6	SL-8	--	--	--	--	--	--	--	--	--	--	
Benz(a)anthracene	mg/kg	0.73	SL-9	--	--	--	--	--	--	--	--	--	--	
Benzo(a)pyrene	mg/kg	0.00031	SL-3	--	--	--	--	--	--	--	--	--	--	
Benzo(b)fluoranthene	mg/kg	44	SL-9	--	--	--	--	--	--	--	--	--	--	
Benzo(j)fluoranthene	mg/kg			--	--	--	--	--	--	--	--	--	--	
Benzo(j,k)fluoranthene	mg/kg			--	--	--	--	--	--	--	--	--	--	
Benzo(k)fluoranthene	mg/kg	71	SL-9	--	--	--	--	--	--	--	--	--	--	
Chrysene	mg/kg	1.4	SL-8	--	--	--	--	--	--	--	--	--	--	
Dibenzo(a,h)anthracene	mg/kg	0.23	SL-8	--	--	--	--	--	--	--	--	--	--	
Indeno(1,2,3-cd)pyrene	mg/kg	0.6	SL-8	--	--	--	--	--	--	--	--	--	--	
Total Benzofluoranthenes	mg/kg	1.1	SL-9	--	--	--	--	--	--	--	--	--	--	
Total HPAHs (ND = 1/2 RDL)	mg/kg	1.1	SL-9	--	--	--	--	--	--	--	--	--	--	
Total LPAHs (ND = 1/2 RDL)	mg/kg	5.2	SL-8	--	--	--	--	--	--	--	--	--	--	
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	0.00031	SL-3	--	--	--	--	--	--	--	--	--	--	
Semivolatile Organic Compounds (SVOCs)														
1,2-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--	--	
1,2-Diphenylhydrazine	mg/kg	0.00068	SL-3	--	--	--	--	--	--	--	--	--	--	
1,3-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--	--	
1,4-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--	--	
2,3,4,6-Tetrachlorophenol	mg/kg	2400	SL-1	--	--	--	--	--	--	--	--	--	--	
2,3,5,6-Tetrachlorophenol	mg/kg			--	--	--	--	--	--	--	--	--	--	
2,3-Dichloroaniline	mg/kg			--	--	--	--	--	--	--	--	--	--	
2,4,5-Trichlorophenol	mg/kg	22	SL-3	--	--	--	--	--	--	--	--	--	--	
2,4,6-Trichlorophenol	mg/kg	0.0033	SL-3	--	--	--	--	--	--	--	--	--	--	
2,4-Dichlorophenol	mg/kg	0.069	SL-3	--	--	--	--	--	--	--	--	--	--	
2,4-Dimethylphenol	mg/kg	0.029	SL-8	--	--	--	--	--	--	--	--	--	--	
2,4-Dinitrophenol	mg/kg	0.061	SL-9	--	--	--	--	--	--	--	--	--	--	
2,4-Dinitrotoluene	mg/kg	0.0028	SL-3	--	--	--	--	--	--	--	--	--	--	
2,6-Dinitrotoluene	mg/kg	0.67	SL-1	--	--	--	--	--	--	--	--	--	--	
2-Chloronaphthalene	mg/kg	5.4	SL-3	--	--	--	--	--	--	--	--	--	--	
2-Chlorophenol	mg/kg	0.2	SL-3	--	--	--	--	--	--	--	--	--	--	
2-Methylphenol	mg/kg	0.063	SL-8	--	--	--	--	--	--	--	--	--	--	
2-Nitroaniline	mg/kg	800	SL-1	--	--	--	--	--	--	--	--	--	--	
2-Nitrophenol	mg/kg			--	--	--	--	--	--	--	--	--	--	
3 & 4 Methylphenol	mg/kg			--	--	--	--	--	--	--	--	--	--	
3,3'-Dichlorobenzidine	mg/kg	2.20E-04	SL-3	--	--	--	--	--	--	--	--	--	--	
3-Nitroaniline	mg/kg			--	--	--	--	--	--	--	--	--	--	
4,6-Dinitro-2-methylphenol	mg/kg	0.13	SL-3	--	--	--	--	--	--	--	--	--	--	
4-Bromophenyl phenyl ether	mg/kg			--	--	--	--	--	--	--	--	--	--	
4-Chloro-3-methylphenol	mg/kg	0.5	SL-3	--	--	--	--	--	--	--	--	--	--	
4-Chloroaniline	mg/kg	5	SL-1	--	--	--	--	--	--	--	--	--	--	
4-Chlorophenyl phenyl ether	mg/kg			--	--	--	--	--	--	--	--	--	--	
4-Methylphenol	mg/kg	0.67	SL-8	--	--	--	--	--	--	--	--	--	--	
4-Nitroaniline	mg/kg	22	SL-9	--	--	--	--	--	--	--	--	--	--	
4-Nitrophenol	mg/kg			--	--	--	--	--	--	--	--	--	--	
Aniline	mg/kg	180	SL-1	--	--	--	--	--	--	--	--	--	--	
Benzoic acid	mg/kg	0.65	SL-8	--	--	--	--	--	--	--	--	--	--	
Benzyl alcohol	mg/kg	0.057	SL-8	--	--	--	--	--	--	--	--	--	--	
Benzyl butyl phthalate	mg/kg	0.0036	SL-3	--	--	--	--	--	--	--	--	--	--	
Bis(2-chloro-1-methylethyl) ether	mg/kg	0.59	SL-3	--	--	--	--	--	--	--	--	--	--	
Bis(2-chloroethoxy)methane	mg/kg	240	SL-1	--	--	--	--	--	--	--	--	--	--	
Bis(2-chloroethyl) ether	mg/kg	0.00033	SL-3	--	--	--	--	--	--	--	--	--	--	
bis(2-Chloroisopropyl)ether	mg/kg			--	--	--	--	--	--	--	--	--	--	
Bis(2-ethylhexyl) adipate	mg/kg	830	SL-1	--	--	--	--	--	--	--	--	--	--	
Bis(2-ethylhexyl) phthalate	mg/kg	0.02	SL-9	--	--	--	--	--	--	--	--	--	--	
Carbazole	mg/kg	79	SL-9	--	--	--	--	--	--	--	--	--	--	
Dibenzofuran	mg/kg	0.54	SL-8	--	--	--	--	--	--	--	--	--	--	
Diethyl phthalate	mg/kg	0.2	SL-8	--	--	--	--	--	--	--	--	--	--	
Dimethyl phthalate	mg/kg	0.071	SL-8	--	--	--	--	--	--	--	--	--	--	
Di-n-butyl phthalate	mg/kg	0.011	SL-9	--	--	--	--	--	--	--	--	--	--	
Di-n-octyl phthalate	mg/kg	0.91	SL-9	--	--	--	--	--	--	--	--	--	--	
Hexachlorobenzene	mg/kg	8.00E-06	SL-3	--	--	--	--	--	--	--	--	--	--	
Hexachlorobutadiene	mg/kg	0.00021	SL-3	--	--	--	--	--	--	--	--	--	--	
Hexachlorocyclopentadiene	mg/kg	0.032	SL-3	--	--	--	--	--	--	--	--	--	--	
Hexachloroethane	mg/kg	0.00016	SL-3	--	--	--	--	--	--	--	--	--	--	
Isophorone	mg/kg	0.58	SL-3	--	--	--	--	--	--	--	--	--	--	
Nitrobenzene	mg/kg	0.64	SL-3	--	--	--	--	--	--	--	--	--	--	
N-Nitrosodimethylamine	mg/kg	0.0015	SL-3	--	--	--	--	--	--	--	--	--	--	
N-Nitroso-di-n-propylamine	mg/kg	0.00055	SL-3	--	--	--	--	--	--	--	--	--	--	
N-Nitrosodiphenylamine	mg/kg	0.028	SL-8	--	--	--	--	--	--	--	--	--	--	
Pentachlorophenol	mg/kg	3.20E-05	SL-3	--	--	--	--	--	--	--	--	--	--	
Phenol	mg/kg	0.42	SL-8	--	--	--	--	--	--	--	--	--	--	
Pyridine	mg/kg	80	SL-1	--	--	--	--	--	--	--	--	--	--	

Table I.3.B. Vadose Soil Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL

Location				HA-04		HA-05			HA-06		HA-07		
Date				09/20/22	09/20/22	09/20/22	09/20/22	09/20/22	09/20/22	09/20/22	09/20/22	09/20/22	09/20/22
Sample				HA-04-0-1	HA-04-2-3	HA-05-0-1	HA-05-0-1-TIG	HA-05-2-3	HA-06-0-1	HA-06-2-3	HA-07-0-1	HA-07-0-1-TIG	HA-07-2-3
Depth				0 - 1 ft	2 - 3 ft	0 - 1 ft	0 - 1 ft	2 - 3 ft	0 - 1 ft	2 - 3 ft	0 - 1 ft	0 - 1 ft	2 - 3 ft
Geologic Unit				Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill
Analyte	Unit	Prelmiinary RI SL	Basis of SL										
Pesticides													
2,4'-DDD	mg/kg			--	--	--	--	--	--	--	--	--	--
2,4'-DDE	mg/kg			--	--	--	--	--	--	--	--	--	--
2,4'-DDT	mg/kg			--	--	--	--	--	--	--	--	--	--
4,4'-DDD	mg/kg	7.30E-06	SL-3	< 0.001 U	--	< 0.01 U	--	--	< 0.001 U	< 0.001 U	< 0.001 U	--	< 0.001 U
4,4'-DDE	mg/kg	1.50E-06	SL-3	< 0.001 U	--	< 0.01 U	--	--	< 0.001 U	< 0.001 U	< 0.001 U	--	< 0.001 U
4,4'-DDT	mg/kg	1.60E-05	SL-3	< 0.001 U	--	< 0.01 U	--	--	**0.0091**	< 0.001 U	**0.0045 J**	--	< 0.001 U
Aldrin	mg/kg	4.00E-08	SL-3	< 0.0017 U	--	< 0.017 U	--	--	< 0.0017 U	< 0.0017 U	< 0.0017 U	--	< 0.0017 U
Alpha-BHC	mg/kg	1.90E-06	SL-3	< 0.0005 U	--	< 0.005 U	--	--	< 0.0005 U	< 0.0005 U	< 0.0005 U	--	< 0.0005 U
Beta-BHC	mg/kg	6.60E-05	SL-3	< 0.0005 U	--	< 0.005 U	--	--	< 0.0005 U	< 0.0005 U	< 0.0005 U	--	< 0.0005 U
Chlordane	mg/kg	2.30E-05	SL-3	--	--	--	--	--	--	--	--	--	--
cis-Chlordane	mg/kg	0.0001	SL-8	< 0.0005 U	--	< 0.005 U	--	--	**0.016 J**	< 0.0005 U	< 0.0005 U	--	< 0.0005 U
cis-Nonachlor	mg/kg			--	--	--	--	--	--	--	--	--	--
Delta-BHC	mg/kg	0.0048	SL-1	< 0.0005 U	--	< 0.005 U	--	--	< 0.0005 U	< 0.0005 UJ	< 0.0005 U	--	< 0.0005 UJ
Dieldrin	mg/kg	3.60E-08	SL-3	< 0.001 U	--	< 0.01 U	--	--	**0.0024**	< 0.001 U	< 0.001 U	--	< 0.001 U
Endosulfan I	mg/kg	0.0012	SL-3	< 0.0005 U	--	< 0.005 U	--	--	< 0.0005 U	< 0.0005 U	< 0.0005 U	--	< 0.0005 U
Endosulfan II	mg/kg	0.0012	SL-3	< 0.001 U	--	< 0.01 U	--	--	< 0.001 U	< 0.001 U	< 0.001 U	--	< 0.001 U
Endosulfan Sulfate	mg/kg	2	SL-3	< 0.001 U	--	< 0.01 U	--	--	< 0.001 U	< 0.001 U	< 0.001 U	--	< 0.001 U
Endrin	mg/kg	0.00044	SL-3	< 0.001 U	--	< 0.01 U	--	--	< 0.001 U	< 0.001 U	< 0.001 U	--	< 0.001 U
Endrin Aldehyde	mg/kg	0.0024	SL-3	< 0.001 U	--	< 0.01 U	--	--	< 0.001 U	< 0.001 U	< 0.001 U	--	< 0.001 U
Endrin ketone	mg/kg			< 0.001 U	--	< 0.01 U	--	--	< 0.001 U	< 0.001 U	< 0.001 U	--	< 0.001 U
Heptachlor	mg/kg	6.60E-08	SL-3	< 0.0005 U	--	< 0.005 U	--	--	< 0.0005 U	< 0.0005 U	< 0.0005 U	--	< 0.0005 U
Heptachlor Epoxide	mg/kg	4.90E-07	SL-3	< 0.0005 U	--	< 0.005 U	--	--	< 0.0005 U	< 0.0005 U	< 0.0005 U	--	< 0.0005 U
Lindane	mg/kg	0.0039	SL-3	< 0.0005 U	--	< 0.005 U	--	--	< 0.0005 U	< 0.0005 U	< 0.0005 U	--	< 0.0005 U
Methoxychlor	mg/kg	0.032	SL-3	< 0.005 U	--	< 0.05 U	--	--	< 0.005 U	< 0.005 U	< 0.005 U	--	< 0.005 U
Mirex	mg/kg	0.0071	SL-3	--	--	--	--	--	--	--	--	--	--
Oxychlordane	mg/kg			--	--	--	--	--	--	--	--	--	--
Toxaphene	mg/kg	6.10E-05	SL-3	< 0.025 U	--	< 0.25 U	--	--	< 0.025 U	< 0.025 U	< 0.025 U	--	< 0.025 U
trans-Chlordane	mg/kg	0.0001	SL-8	< 0.0017 U	--	< 0.017 U	--	--	**0.014**	< 0.0017 U	< 0.0017 U	--	< 0.0017 U
trans-Nonachlor	mg/kg			--	--	--	--	--	--	--	--	--	--
Total Petroleum Hydrocarbons (TPH)													
Gasoline Range Organics	mg/kg	30	SL-3	--	--	--	--	--	--	--	--	--	--
Diesel Range Organics	mg/kg	2000	SL-9	--	--	--	--	--	--	--	--	--	--
Motor Oil Range Organics	mg/kg	2000	SL-9	--	--	--	--	--	--	--	--	--	--
Diesel and Oil Extended Range Organics	mg/kg	2000	SL-9	--	--	--	--	--	--	--	--	--	--
Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)													
Benzene	mg/kg	0.0088	SL-3	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	0.72	SL-3	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	0.18	SL-3	--	--	--	--	--	--	--	--	--	--
Total Xylenes	mg/kg	0.94	SL-3	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds (VOCs)													
1,1,1,2-Tetrachloroethane	mg/kg	38	SL-1	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	370	SL-3	--	--	--	--	--	--	--	--	--	--
1,1,2 - Trichlorotrifluoroethane	mg/kg	2400000	SL-1	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	0.0017	SL-3	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	0.005	SL-3	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	180	SL-1	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	11	SL-9	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	mg/kg			--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	64	SL-1	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	0.0063	SL-1	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	0.0014	SL-3	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	800	SL-1	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	mg/kg	0.23	SL-1	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	mg/kg	0.5	SL-1	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	0.035	SL-8	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane (EDC)	mg/kg	0.35	SL-3	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	0.016	SL-3	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	800	SL-1	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	0.023	SL-3	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	mg/kg	0.0066	SL-3	--	--	--	--	--	--	--	--	--	--
1,4-Dichloro-2-Butene	mg/kg			--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	0.11	SL-8	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	mg/kg			--	--	--	--	--	--	--	--	--	--
2-Butanone	mg/kg	350	SL-9	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl Vinyl Ether	mg/kg			--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	1600	SL-1	--	--	--	--	--	--	--	--	--	--
2-Hexanone	mg/kg	400	SL-1	--	--	--	--	--	--	--	--	--	--
2-Pentanone	mg/kg			--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	1600	SL-1	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone	mg/kg	6400	SL-1	--	--	--	--	--	--	--	--	--	--
Acetone	mg/kg	1.2	SL-9	--	--	--	--	--	--	--	--	--	--
Acrolein	mg/kg	0.0044	SL-3	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	mg/kg	0.00012	SL-3	--	--	--	--	--	--	--	--	--	--
Bromobenzene	mg/kg	640	SL-1	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	mg/kg			--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	0.013	SL-3	--	--	--	--	--	--	--	--	--	--
Bromoform	mg/kg	0.078	SL-3	--	--	--	--	--	--	--	--	--	--
Bromomethane	mg/kg	0.24	SL-9	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	mg/kg	0.81	SL-9	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	0.0029	SL-3	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	mg/kg	1.7	SL-3	--	--	--	--	--	--	--	--	--	--
Chloroethane	mg/kg			--	--	--	--	--	--	--	--	--	--
Chloroform	mg/kg	0.81	SL-3	--	--	--	--	--	--	--	--	--	--
Chloromethane	mg/kg			--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene (DCE)	mg/kg	24	SL-9	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	0.0056	SL-3	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	mg/kg	0.01	SL-3	--	--	--	--	--	--	--	--	--	--
Dibromomethane	mg/kg	800	SL-1	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg	16000	SL-1	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	mg/kg	8000	SL-1	--	--	--	--	--	--	--	--	--	--
m,p-Xylenes	mg/kg			--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	mg/kg	560	SL-1	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	mg/kg	0.43	SL-3	--	--	--	--	--	--	--	--	--	--
Methyliodide	mg/kg			--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	4000	SL-1	--	--	--	--	--	--	--	--	--	--
n-Hexane	mg/kg	4800	SL-1	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	8000	SL-1	--	--	--	--	--	--	--	--	--	--
o-Xylene	mg/kg			--	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene	mg/kg	320	SL-1	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	mg/kg	8000	SL-1	--	--	--	--	--	--	--	--	--	--
Styrene	mg/kg	4.7	SL-9	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	mg/kg	8000	SL-1	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	mg/kg	0.029	SL-3	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	0.78	SL-3	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	0.0056	SL-3	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	mg/kg	0.0044	SL-3	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg	24000	SL-1	--	--	--	--	--	--	--	--	--	--
Vinyl Acetate	mg/kg	80000	SL-1	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	0.0011	SL-3	--	--	--	--	--	--	--	--	--	--
Conventionals													
Total Organic Carbon	%			--	--	--	--	--	--	--	--	--	--
Total Solids	%			--	--	--	**95.6**	--	--	--	--	**94.1**	--

Table I.3.B. Vadose Soil Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL

				Location	MW-04		MW-04D			MW-05	MW-05D	MW-06		MW-06D	
				Date	03/04/21	03/04/21	09/22/22	09/22/22	09/22/22	03/05/21	09/21/22	03/05/21	03/05/21	09/21/22	09/21/22
				Sample	MW-4-0-1	MW-4-4-5	MW-04D-0-1	MW-04D-0-1-TIG	MW-04D-4.5-5.5	MW-5-0-1	MW-05D-0-1	MW-6-0-1	MW-6-4-5	MW-06D-0-1	MW-06D-4-5
				Depth	0 - 1 ft	4 - 5 ft	0 - 1 ft	0 - 1 ft	4.5 - 5.5 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	4 - 5 ft	0 - 1 ft	4 - 5 ft
				Geologic Unit	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill
Analyte	Unit	Prelmiinary RI SL	Basis of SL												
Metals, Total															
Arsenic	mg/kg	7.3	SL-10	**5.03**	**1.48**	**3.61**	--	**0.89**	**20.7**	**1.33**	**6.81**	**2.44**	**11.3**	--
Barium	mg/kg	250	SL-10	--	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/kg	0.77	SL-10	**0.86**	**0.24**	**1.25**	--	**0.257**	**2.09**	**1.01**	**0.35**	**0.09 J**	**1.21**	--
Chromium	mg/kg	67	SL-9	**33.1**	**20.3**	**28.4**	--	**17**	**50.2**	**33.9**	**17.9**	**15.1**	**22.5**	--
Copper	mg/kg	36	SL-10	**66.3**	**8.76**	**29.9**	--	**5.39**	**135**	**25.4**	**99.9**	**31.1**	**221**	--
Lead	mg/kg	120	SL-9	**587 J**	**23.4**	**187 J**	--	**74.8 J**	**313 J**	**223**	**64.8 J**	**19.7 J**	**150**	--
Mercury	mg/kg	0.07	SL-10	**0.997**	--	--	**3.9**	**0.034**	**0.392**	**0.73 J**	**0.0668**	**0.0162 J**	**0.15 J**	--
Nickel	mg/kg	48	SL-10	**16.6**	**6.71**	**9.71**	--	**4.34**	**14.9**	**5.52**	**15.7**	**11.7**	**13.9**	--
Selenium	mg/kg	0.78	SL-10	--	--	--	--	--	--	--	--	--	--	--
Silver	mg/kg	0.61	SL-10	--	--	--	--	--	--	--	--	--	--	--
Zinc	mg/kg	100	SL-3	**124**	**43**	**90.6 J**	--	**84.8 J**	**337**	**104**	**127**	**38.9**	**191**	--
Butyl Tins															
Dibutyltin Ion	mg/kg			--	--	**0.00412 J**	--	< 0.0288 U	**0.0564 J**	< 0.00571 U	--	--	**0.0189**	< 0.00574 U
Monobutyltin	mg/kg			--	--	**0.00672**	--	< 0.0203 U	**0.0547**	**0.00202 J**	--	--	**0.0132**	< 0.00405 U
Tetrabutyltin	mg/kg			--	--	< 0.00493 U	--	< 0.0249 U	< 0.05 U	< 0.00494 U	--	--	< 0.00491 U	< 0.00497 U
Tributyltin Ion	mg/kg	0.0021	SL-8	--	--	**0.00464**	--	< 0.0192 U	**0.0894**	< 0.00382 U	--	--	**0.0186**	< 0.00383 U
Polychlorinated Biphenyl (PCB) Aroclors															
Total PCB Aroclors (ND = 0)	mg/kg	1.10E-05	SL-3	**4.19**	**3.54**	**4.4**	--	**34**	**3.75**	**22.3**	**0.231**	**0.144**	**1.47**	--
Polychlorinated Biphenyl (PCB) Congeners															
Total PCB Congeners (ND = 0)	mg/kg	1.10E-05	SL-3	**5.65 J**	--	--	**6.05 J**	--	--	--	--	--	--	--
Total PCB TEQ (ND = 0)	mg/kg	6.90E-09	SL-3	**2.35E-04**	--	--	**3.08E-04 J**	--	--	--	--	--	--	--
Dioxins/Furans															
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	5.20E-06	SL-10	--	--	--	**2.94E-03 J**	--	--	--	--	--	**1.94E-05 J**	--
2,3,7,8-TCDD	mg/kg	5.20E-06	SL-10	--	--	--	**2.98E-05**	--	--	--	--	--	**2.92E-07**	--
Polycyclic Aromatic Hydrocarbons (PAHs)															
1-Methylnaphthalene	mg/kg	20	SL-1	**0.00706 J**	--	< 0.02 U	--	< 0.01 U	**0.00643**	< 0.1 U	< 0.00498 U	< 0.00496 U	< 0.005 U	--
2-Methylnaphthalene	mg/kg	0.67	SL-8	**0.0111 J**	--	< 0.02 U	--	< 0.01 U	< 0.005 U	< 0.1 U	< 0.00498 U	< 0.00496 U	< 0.005 U	--
Acenaphthene	mg/kg	0.5	SL-8	< 0.015 U	--	< 0.02 U	--	< 0.01 U	**0.00143 J**	< 0.1 U	< 0.00498 U	< 0.00496 U	< 0.005 U	--
Acenaphthylene	mg/kg	1.3	SL-8	**0.00339 J**	--	< 0.02 U	--	< 0.01 U	**0.00252 J**	< 0.1 U	**0.00192 J**	< 0.00496 U	< 0.005 U	--
Anthracene	mg/kg	0.96	SL-8	**0.00935 J**	--	< 0.02 U	--	< 0.01 U	**0.00755**	< 0.1 U	**0.00275 J**	< 0.00496 U	< 0.005 U	--
Benzo(g,h,i)perylene	mg/kg	0.67	SL-8	**0.0358**	--	**0.052 J**	--	**0.068 J**	**0.0281**	< 0.1 J	**0.0199**	**0.00241 J**	**0.012 J**	--
Fluoranthene	mg/kg	1.7	SL-8	**0.0356**	--	**0.023**	--	< 0.01 U	**0.0419**	< 0.1 U	**0.0158**	**0.00173 J**	**0.036**	--
Fluorene	mg/kg	0.54	SL-8	< 0.015 U	--	< 0.02 U	--	< 0.01 U	< 0.005 U	< 0.1 U	< 0.00498 U	< 0.00496 U	< 0.005 U	--
Naphthalene	mg/kg	0.039	SL-3	< 0.00633 U	--	< 0.02 U	--	< 0.01 U	< 0.00804 U	< 0.1 U	< 0.00498 U	< 0.00496 U	**0.0085**	--
Phenanthrene	mg/kg	1.5	SL-8	**0.0289**	--	< 0.02 U	--	< 0.01 U	**0.0251**	< 0.1 U	**0.00623**	< 0.00496 U	**0.018**	--
Pyrene	mg/kg	2.6	SL-8	**0.0362**	--	**0.03**	--	**0.012 J**	**0.0388**	< 0.1 U	**0.0166**	**0.00191 J**	**0.038**	--
Benz(a)anthracene	mg/kg	0.73	SL-9	**0.0186**	--	< 0.02 U	--	< 0.01 J	**0.0145**	< 0.1 U	**0.00827**	**0.00098 J**	**0.018**	--
Benzo(a)pyrene	mg/kg	0.00031	SL-3	**0.0252**	--	**0.017 J**	--	< 0.01 J	**0.0191**	< 0.1 J	**0.0124**	**0.00167 J**	**0.024 J**	--
Benzo(b)fluoranthene	mg/kg	44	SL-9	**0.0274**	--	**0.028 J**	--	< 0.01 J	**0.0265**	< 0.1 J	**0.0254**	**0.00178 J**	**0.049 J**	--
Benzo(j)fluoranthene	mg/kg			**0.0147 J**	--	--	--	--	**0.0114**	--	**0.0113**	**0.00114 J**	--	--
Benzo(j,k)fluoranthene	mg/kg			--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	mg/kg	71	SL-9	**0.0131 J**	--	< 0.02 J	--	< 0.01 J	**0.0111**	< 0.1 J	**0.01**	**0.00081 J**	**0.016 J**	--
Chrysene	mg/kg	1.4	SL-8	**0.0331**	--	< 0.02 U	--	< 0.01 J	**0.0368**	< 0.1 U	**0.0194**	**0.00167 J**	**0.03**	--
Dibenzo(a,h)anthracene	mg/kg	0.23	SL-8	**0.00688 J**	--	< 0.02 J	--	< 0.01 J	**0.00598**	< 0.1 J	**0.00392 J**	< 0.00496 U	< 0.005 J	--
Indeno(1,2,3-cd)pyrene	mg/kg	0.6	SL-8	**0.0226**	--	**0.029 J**	--	**0.046 J**	**0.0207**	< 0.1 J	**0.0151**	**0.00245 J**	**0.015 J**	--
Total Benzofluoranthenes	mg/kg	1.1	SL-9	**0.0584**	--	**0.038 J**	--	< 0.01 J	**0.0522**	< 0.1 J	**0.0454**	**0.00386 J**	**0.065 J**	--
Total HPAHs (ND = 1/2 RDL)	mg/kg	1.1	SL-9	**0.269 J**	--	**0.219 J**	--	**0.161 J**	**0.255**	< 0.1 U	**0.158 J**	**0.019 J**	**0.241 J**	--
Total LPAHs (ND = 1/2 RDL)	mg/kg	5.2	SL-8	**0.0598 J**	--	< 0.02 U	--	< 0.01 U	**0.0431 J**	< 0.1 U	**0.0184 J**	< 0.00496 U	**0.0365**	--
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	0.00031	SL-3	**0.0344 J**	--	**0.0258 J**	--	**0.0117 J**	**0.0273**	< 0.0755 U	**0.0189 J**	**0.00254 J**	**0.0344 J**	--
Semivolatile Organic Compounds (SVOCs)															
1,2-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	mg/kg	0.00068	SL-3	--	--	--	--	< 0.5 U	--	< 0.5 U	--	--	< 0.025 U	--
1,3-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--	--	--
1,4-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	mg/kg	2400	SL-1	--	--	--	--	--	--	--	--	--	--	--
2,3,5,6-Tetrachlorophenol	mg/kg			--	--	--	--	--	--	--	--	--	--	--
2,3-Dichloroaniline	mg/kg			--	--	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	mg/kg	22	SL-3	< 0.1 U	--	< 1 U	--	< 0.5 U	< 0.998 U	< 5 U	< 0.1 U	< 0.0996 U	< 0.25 U	--
2,4,6-Trichlorophenol	mg/kg	0.0033	SL-3	< 0.1 U	--	< 1 U	--	< 0.5 U	< 0.998 U	< 5 U	< 0.1 U	< 0.0996 U	< 0.25 U	--
2,4-Dichlorophenol	mg/kg	0.069	SL-3	< 0.1 U	--	< 1 U	--	< 0.5 U	< 0.998 U	< 5 U	< 0.1 U	< 0.0996 U	< 0.25 U	--
2,4-Dimethylphenol	mg/kg	0.029	SL-8	< 0.1 U	--	< 1 U	--	< 0.5 U	< 0.998 U	< 5 U	< 0.1 U	< 0.0996 U	< 0.25 U	--
2,4-Dinitrophenol	mg/kg	0.061	SL-9	< 0.2 UJ	--	< 3 U	--	< 1.5 U	< 2 UJ	< 15 U	< 0.2 UJ	< 0.199 UJ	< 0.75 U	--
2,4-Dinitrotoluene	mg/kg	0.0028	SL-3	< 0.1 U	--	< 0.5 U	--	< 0.25 U	< 0.998 U	< 2.5 U	< 0.1 U	< 0.0996 U	< 0.12 U	--
2,6-Dinitrotoluene	mg/kg	0.67	SL-1	< 0.1 U	--	< 0.5 U	--	< 0.25 U	< 0.998 U	< 2.5 U	< 0.1 U	< 0.0996 U	< 0.12 U	--
2-Chloronaphthalene	mg/kg	5.4	SL-3	< 0.02 U	--	< 0.1 U	--	< 0.05 U	< 0.2 U	< 0.5 U	< 0.02 U	< 0.0199 U	< 0.025 U	--
2-Chlorophenol	mg/kg	0.2	SL-3	< 0.02 U	--	< 1 U	--	< 0.5 U	< 0.2 U	< 5 U	< 0.02 U	< 0.0199 U	< 0.25 U	--
2-Methylphenol	mg/kg	0.063	SL-8	**0.0902**	--	< 1 U	--	< 0.5 U	< 0.2 U	< 5 U	< 0.02 U	< 0.0199 U	< 0.25 U	--
2-Nitroaniline	mg/kg	800	SL-1	< 0.1 U	--	< 0.5 U	--	< 0.25 U	< 0.998 U	< 2.5 U	< 0.1 U	< 0.0996 U	< 0.12 U	--
2-Nitrophenol	mg/kg			< 0.02 U	--	< 1 U	--	< 0.5 U	< 0.2 U	< 5 U	< 0.02 U	< 0.0199 U	< 0.25 U	--
3 & 4 Methylphenol	mg/kg			--	--	< 2 U	--	< 1 U	--	< 10 U	--	--	< 0.5 U	--
3,3'-Dichlorobenzidine	mg/kg	2.20E-04	SL-3	< 0.1 U	--	--	--	< 5 U	< 0.998 U	< 5 U	< 0.1 U	< 0.0996 U	< 0.25 U	--
3-Nitroaniline	mg/kg			< 0.1 U	--	< 10 U	--	< 5 U	< 0.998 U	< 50 U	< 0.1 U	< 0.0996 U	< 2.5 U	--
4,6-Dinitro-2-methylphenol	mg/kg	0.13	SL-3	< 0.2 UJ	--	< 3 U	--	< 1.5 U	< 2 UJ	< 15 U	< 0.2 UJ	< 0.199 UJ	< 0.75 U	--
4-Bromophenyl phenyl ether	mg/kg			< 0.02 U	--	< 0.1 U	--	< 0.05 U	< 0.2 U	< 0.5 U	< 0.02 U	< 0.0199 U	< 0.025 U	--
4-Chloro-3-methylphenol	mg/kg	0.5	SL-3	< 0.1 U	--	< 1 U	--	< 0.5 U	< 0.998 U	< 5 U	< 0.1 U	< 0.0996 U	< 0.25 U	--
4-Chloroaniline	mg/kg	5	SL-1	< 0.1 U	--	< 10 U	--	< 5 U	< 0.998 U	< 50 UJ	< 0.1 U	< 0.0996 U	< 2.5 UJ	--
4-Chlorophenyl phenyl ether	mg/kg			< 0.02 U	--	< 0.1 U	--	< 0.05 U	< 0.2 U	< 0.5 U	< 0.02 U	< 0.0199 U	< 0.025 U	--
4-Methylphenol	mg/kg	0.67	SL-8	< 0.02 U	--	< 2 U	--	< 1 U	< 0.2 U	< 10 U	< 0.02 U	< 0.0199 U	< 0.5 U	--
4-Nitroaniline	mg/kg	22	SL-9	**0.965**	--	< 10 U	--	< 5 U	**9.12**	< 50 U	**0.227**	< 0.0996 U	< 2.5 U	--
4-Nitrophenol	mg/kg			< 0.1 U	--	< 3 U	--	< 1.5 U	< 0.998 U	< 15 U	< 0.1 U	< 0.0996 U	< 0.75 U	--
Aniline	mg/kg	180	SL-1	--	--	--	--	--	--	--	--	--	--	--
Benzoic acid	mg/kg	0.65	SL-8	< 0.2 UJ	--	< 5 U	--	< 2.5 U	< 2 UJ	< 25 U	< 0.2 UJ	< 0.199 UJ	< 1.2 U	--
Benzyl alcohol	mg/kg	0.057	SL-8	< 0.02 U	--	< 1 U	--	< 0.5 U	< 0.2 U	< 5 U	< 0.02 U	< 0.0199 U	< 0.25 U	--
Benzyl butyl phthalate	mg/kg	0.0036	SL-3	**0.0913**	--	< 1 U	--	< 0.5 J	< 0.2 U	< 5 U	< 0.02 U	< 0.0199 U	< 0.25 U	--
Bis(2-chloro-1-methylethyl) ether	mg/kg	0.59	SL-3	< 0.02 U	--	< 0.1 U	--	< 0.05 U	< 0.2 U	< 0.5 U	< 0.02 U	< 0.0199 U	< 0.025 U	--
Bis(2-chloroethoxy)methane	mg/kg	240	SL-1	< 0.02 U	--	< 0.1 U	--	< 0.05 U	< 0.2 U	< 0.5 U	< 0.02 U	< 0.0199 U	< 0.025 U	--
Bis(2-chloroethyl) ether	mg/kg	0.00033	SL-3	< 0.02 U	--	< 0.1 U	--	< 0.05 U	< 0.2 U	< 0.5 U	< 0.02 U	< 0.0199 U	< 0.025 U	--
bis(2-Chloroisopropyl)ether	mg/kg			--	--	--	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) adipate	mg/kg	830	SL-1	--	--	--	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate	mg/kg	0.02	SL-9	**0.258**	--	< 1.6 U	--	< 0.8 J	< 0.499 U	< 8 U	**0.0654**	< 0.0498 U	< 0.4 U	--
Carbazole	mg/kg	79	SL-9	< 0.02 U	--	< 0.1 UJ	--	< 0.05 UJ	< 0.2 U	< 0.5 U	< 0.02 U	< 0.0199 U	< 0.025 U	--
Dibenzofuran	mg/kg	0.54	SL-8	< 0.015 U	--	< 0.1 U	--	< 0.05 U	**0.00245 J**	< 0.5 U	< 0.00498 U	< 0.00496 U	< 0.025 U	--
Diethyl phthalate	mg/kg	0.2	SL-8	< 0.02 U	--	< 1 U	--	< 0.5 U	< 0.2 U	< 5 U	< 0.02 U	< 0.0199 U	< 0.25 U	--
Dimethyl phthalate	mg/kg	0.071	SL-8	**0.0095 J**	--	< 1 U	--	< 0.5 U	**0.292**	< 5 U	**0.0358**	< 0.0199 U	< 0.25 U	--
Di-n-butyl phthalate	mg/kg	0.011	SL-9	**0.378**	--	< 1 U	--	< 0.5 U	**0.0648 J**	< 5 U	**0.0077 J**	< 0.0199 U	< 0.25 U	--
Di-n-octyl phthalate	mg/kg	0.91	SL-9	< 0.02 U	--	< 1 U	--	< 0.5 U	< 0.2 U	< 5 UJ	< 0.02 U	< 0.0199 U	< 0.25 J	--
Hexachlorobenzene	mg/kg	8.00E-06	SL-3	< 0.00996 U	--	< 0.1 U	--	< 0.05 U	< 0.00998 U	< 0.5 U	< 0.00497 U	< 0.0005 U	< 0.025 U	--
Hexachlorobutadiene	mg/kg	0.00021	SL-3	< 0.00633 U	--	< 0.1 U	--	< 0.05 U	< 0.00804 U	< 0.5 U	< 0.00497 U	< 0.0005 U	< 0.025 U	--
Hexachlorocyclopentadiene	mg/kg	0.032	SL-3	< 0.1 UJ	--	< 0.3 U	--	< 0.15 U	< 0.998 UJ	< 1.5 U	< 0.1 UJ	< 0.0996 UJ	< 0.075 U	--
Hexachloroethane	mg/kg	0.00016	SL-3	< 0.02 U	--	< 0.1 U	--	< 0.05 U	< 0.2 U	< 0.5 U	< 0.02 U	< 0.0199 U	< 0.025 U	--
Isophorone	mg/kg	0.58	SL-3	**1.59**	--	< 0.1 U	--	< 0.05 U	< 0.2 U	< 0.5 U	< 0.02 U	< 0.0199 U	< 0.025 U	--
Nitrobenzene	mg/kg	0.64	SL-3	**0.0314**	--	< 0.1 U	--	< 0.05 U	**0.136 J**	< 0.5 U	< 0.02 U	< 0.0199 U	< 0.025 U	--
N-Nitrosodimethylamine	mg/kg	0.0015	SL-3	--	--	< 0.1 U	--	< 0.5 U	--	< 0.5 U	--	--	< 0.025 U	--
N-Nitroso-di-n-propylamine	mg/kg	0.00055	SL-3	< 0.02 U	--	< 0.1 U	--	< 0.05 U	< 0.2 U	< 0.5 U	< 0.02 U	< 0.0199 U	< 0.025 U	--
N-Nitrosodiphenylamine	mg/kg	0.028	SL-8	< 0.02 U	--	< 0.1 U	--	< 0.05 U	< 0.2 U	< 0.5 U	< 0.02 U	< 0.0199 U	< 0.025 U	--
Pentachlorophenol	mg/kg	3.20E-05	SL-3	**0.118 J**	--	< 0.5 U	--	< 0.25 U	< 0.998 UJ	< 2.5 U	< 0.1 UJ	< 0.0996 UJ	< 0.12 U	--
Phenol	mg/kg	0.42	SL-8	**0.0798**	--	< 1 U	--	< 0.5 U	< 0.2 U	< 5 U	< 0.02 U	< 0.0199 U	< 0.25 U	--
Pyridine	mg/kg	80	SL-1	--	--	--	--	--	--	--	--	--	--	--

Table I.3.B. Vadose Soil Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL

Location				MW-04		MW-04D			MW-05	MW-05D	MW-06		MW-06D	
Date				03/04/21	03/04/21	09/22/22	09/22/22	09/22/22	03/05/21	09/21/22	03/05/21	03/05/21	09/21/22	09/21/22
Sample				MW-4-0-1	MW-4-4-5	MW-04D-0-1	MW-04D-0-1-TIG	MW-04D-4.5-5.5	MW-5-0-1	MW-05D-0-1	MW-6-0-1	MW-6-4-5	MW-06D-0-1	MW-06D-4-5
Depth				0 - 1 ft	4 - 5 ft	0 - 1 ft	0 - 1 ft	4.5 - 5.5 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	4 - 5 ft	0 - 1 ft	4 - 5 ft
Geologic Unit				Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill
Analyte	Unit	Prelmiinary RI SL	Basis of SL											
Pesticides														
2,4'-DDD	mg/kg			< 0.0199 U	--	--	--	--	< 0.02 U	--	< 0.00994 U	< 0.001 U	--	--
2,4'-DDE	mg/kg			< 7.96 U	--	--	--	--	< 5.99 U	--	< 0.00994 U	< 0.001 U	--	--
2,4'-DDT	mg/kg			< 7.96 U	--	--	--	--	< 5.99 U	--	< 0.00994 U	< 0.001 U	--	--
4,4'-DDD	mg/kg	7.30E-06	SL-3	< 0.0199 U	--	< 0.2 U	--	< 0.2 U	< 0.02 U	< 0.1 U	< 0.00994 U	< 0.001 U	< 0.01 U	--
4,4'-DDE	mg/kg	1.50E-06	SL-3	< 5.97 U	--	< 0.2 U	--	**0.3**	< 3.99 U	**0.35**	< 0.00994 U	< 0.001 U	< 0.01 U	--
4,4'-DDT	mg/kg	1.60E-05	SL-3	< 13.9 U	--	< 0.2 U	--	< 0.2 U	< 9.98 U	< 0.1 U	< 0.00994 U	< 0.015 U	< 0.01 U	--
Aldrin	mg/kg	4.00E-08	SL-3	**0.074**	--	< 0.34 U	--	< 0.34 U	**0.0694**	< 0.17 U	< 0.00497 U	< 0.0005 U	< 0.017 U	--
Alpha-BHC	mg/kg	1.90E-06	SL-3	< 0.00996 U	--	< 0.1 U	--	< 0.1 U	< 0.00998 U	< 0.05 U	< 0.00497 U	< 0.0005 U	< 0.005 U	--
Beta-BHC	mg/kg	6.60E-05	SL-3	< 0.00996 U	--	< 0.1 U	--	< 0.1 U	< 0.00998 U	< 0.05 U	< 0.00497 U	< 0.0005 U	< 0.005 U	--
Chlordane	mg/kg	2.30E-05	SL-3	--	--	--	--	--	--	--	--	--	--	--
cis-Chlordane	mg/kg	0.0001	SL-8	< 3.98 U	--	< 0.1 U	--	< 0.1 U	< 0.00998 U	< 0.05 U	< 0.00497 U	< 0.0005 U	< 0.005 U	--
cis-Nonachlor	mg/kg			< 0.0199 U	--	--	--	--	< 0.02 U	--	< 0.00994 U	< 0.001 U	--	--
Delta-BHC	mg/kg	0.0048	SL-1	< 0.00996 U	--	< 0.34 UJ	--	< 0.34 UJ	< 0.00998 U	< 0.05 U	< 0.00497 U	< 0.0005 U	< 0.005 U	--
Dieldrin	mg/kg	3.60E-08	SL-3	**0.85**	--	< 0.2 U	--	**0.9**	< 3.99 U	**0.5**	< 0.00994 U	< 0.00799 U	< 0.01 U	--
Endosulfan I	mg/kg	0.0012	SL-3	< 0.00996 U	--	< 0.1 U	--	< 0.1 U	< 0.00998 U	< 0.05 U	< 0.00497 U	< 0.0005 U	< 0.005 U	--
Endosulfan II	mg/kg	0.0012	SL-3	< 1.99 U	--	< 0.2 U	--	< 0.2 U	< 3.99 U	< 0.1 U	< 0.00994 U	< 0.001 U	< 0.01 U	--
Endosulfan Sulfate	mg/kg	2	SL-3	< 0.0199 U	--	< 0.2 U	--	< 0.2 U	< 2 U	< 0.1 U	< 0.00994 U	< 0.001 U	< 0.01 U	--
Endrin	mg/kg	0.00044	SL-3	< 0.0199 U	--	< 0.2 U	--	< 0.2 U	< 0.02 U	**0.19**	< 0.00994 U	< 0.001 U	< 0.01 U	--
Endrin Aldehyde	mg/kg	0.0024	SL-3	< 3.98 U	--	< 0.2 U	--	< 0.2 U	< 2 U	< 0.1 U	< 0.00994 U	< 0.004 U	< 0.01 U	--
Endrin ketone	mg/kg			< 3.98 U	--	< 0.2 U	--	< 0.2 U	< 0.02 U	< 0.1 U	< 0.00994 U	< 0.001 U	< 0.01 U	--
Heptachlor	mg/kg	6.60E-08	SL-3	< 0.00996 U	--	< 0.1 U	--	< 0.1 U	< 0.00998 U	< 0.05 U	< 0.00497 U	< 0.0005 U	< 0.005 U	--
Heptachlor Epoxide	mg/kg	4.90E-07	SL-3	< 0.00996 U	--	< 0.1 U	--	< 0.1 U	< 0.00998 U	< 0.05 U	< 0.00497 U	< 0.0005 U	< 0.005 U	--
Lindane	mg/kg	0.0039	SL-3	< 0.00996 U	--	< 0.1 U	--	< 0.1 U	< 0.00998 U	< 0.05 U	< 0.00497 U	< 0.0005 U	< 0.005 U	--
Methoxychlor	mg/kg	0.032	SL-3	< 0.0996 U	--	< 1 U	--	< 1 U	< 0.0998 U	< 0.5 U	< 0.0497 U	< 0.00499 U	< 0.05 U	--
Mirex	mg/kg	0.0071	SL-3	< 1.39 U	--	--	--	--	< 1.6 U	--	< 0.00994 U	< 0.001 U	--	--
Oxychlordane	mg/kg			< 0.0199 U	--	--	--	--	< 0.02 U	--	< 0.00994 U	< 0.001 U	--	--
Toxaphene	mg/kg	6.10E-05	SL-3	--	--	< 5 U	--	< 5 U	--	< 2.5 U	--	--	< 0.25 U	--
trans-Chlordane	mg/kg	0.0001	SL-8	< 3.98 U	--	< 0.34 U	--	< 0.34 U	< 0.00998 U	< 0.17 U	< 0.00497 U	**0.00065**	< 0.017 U	--
trans-Nonachlor	mg/kg			< 0.0199 U	--	--	--	--	< 0.798 U	--	< 0.00994 U	< 0.001 U	--	--
Total Petroleum Hydrocarbons (TPH)														
Gasoline Range Organics	mg/kg	30	SL-3	< 6.76 U	--	--	--	**2.6 J**	**14.1**	< 5 U	**11.8**	< 7.01 U	< 5 U	--
Diesel Range Organics	mg/kg	2000	SL-9	**305**	--	**120**	--	**1400**	**137**	**490 J**	< 57.6 U	< 58.4 U	**42 J**	--
Motor Oil Range Organics	mg/kg	2000	SL-9	**1640**	--	**760**	--	**6000**	**626**	**3100**	< 115 U	**122**	**320**	--
Diesel and Oil Extended Range Organics	mg/kg	2000	SL-9	**1950**	--	**880**	--	**7400**	**763**	**3590 J**	< 115 U	**122**	**362 J**	--
Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)														
Benzene	mg/kg	0.0088	SL-3	< 0.00127 U	--	< 0.001 U	--	< 0.001 U	< 0.00161 U	< 0.001 U	**0.00108 J**	< 0.00124 U	< 0.001 U	--
Toluene	mg/kg	0.72	SL-3	**0.00061 J**	--	**0.0021**	--	**0.0012**	**0.00206**	< 0.001 U	**0.00063 J**	< 0.00124 U	**0.0014**	--
Ethylbenzene	mg/kg	0.18	SL-3	< 0.00127 U	--	< 0.001 U	--	< 0.001 U	< 0.00161 U	< 0.001 U	< 0.0012 U	< 0.00124 U	< 0.001 U	--
Total Xylenes	mg/kg	0.94	SL-3	< 0.00253 U	--	**0.0011**	--	< 0.002 U	< 0.00322 U	< 0.002 U	< 0.00239 U	< 0.00249 U	< 0.002 U	--
Volatile Organic Compounds (VOCs)														
1,1,1,2-Tetrachloroethane	mg/kg	38	SL-1	< 0.00127 U	--	< 0.05 U	--	< 0.05 U	< 0.00161 U	< 0.05 U	< 0.0012 U	< 0.00124 U	< 0.05 U	--
1,1,1-Trichloroethane	mg/kg	370	SL-3	< 0.00127 U	--	< 0.002 U	--	< 0.002 U	< 0.00161 U	< 0.002 U	< 0.0012 U	< 0.00124 U	< 0.002 U	--
1,1,2 - Trichlorotrifluoroethane	mg/kg	2400000	SL-1	< 0.00253 U	--	--	--	--	< 0.00322 U	--	< 0.00239 U	< 0.00249 U	--	--
1,1,2,2-Tetrachloroethane	mg/kg	0.0017	SL-3	< 0.00127 U	--	< 0.05 U	--	< 0.05 U	< 0.00161 U	< 0.05 U	< 0.0012 U	< 0.00124 U	< 0.05 U	--
1,1,2-Trichloroethane	mg/kg	0.005	SL-3	< 0.00127 U	--	< 0.005 U	--	< 0.005 U	< 0.00161 U	< 0.005 U	< 0.0012 U	< 0.00124 U	< 0.005 U	--
1,1-Dichloroethane	mg/kg	180	SL-1	< 0.00127 U	--	< 0.002 U	--	< 0.002 U	< 0.00161 U	< 0.002 U	< 0.0012 U	< 0.00124 U	< 0.002 U	--
1,1-Dichloroethene	mg/kg	11	SL-9	< 0.00127 U	--	< 0.001 U	--	< 0.001 U	< 0.00161 U	< 0.001 U	< 0.0012 U	< 0.00124 U	< 0.001 U	--
1,1-Dichloropropene	mg/kg			< 0.00127 U	--	< 0.05 U	--	< 0.05 U	< 0.00161 U	< 0.05 U	< 0.0012 U	< 0.00124 U	< 0.05 U	--
1,2,3-Trichlorobenzene	mg/kg	64	SL-1	< 0.00633 U	--	< 0.25 U	--	< 0.25 U	< 0.00804 U	< 0.25 U	< 0.00598 U	< 0.00621 U	< 0.25 U	--
1,2,3-Trichloropropane	mg/kg	0.0063	SL-1	< 0.00253 U	--	< 0.05 U	--	< 0.05 U	< 0.00322 U	< 0.05 U	< 0.00239 U	< 0.00249 U	< 0.05 U	--
1,2,4-Trichlorobenzene	mg/kg	0.0014	SL-3	< 0.00633 U	--	< 0.01 U	--	< 0.01 U	< 0.00804 U	< 0.01 U	< 0.00598 U	< 0.00621 U	< 0.025 U	--
1,2,4-Trimethylbenzene	mg/kg	800	SL-1	< 0.00127 U	--	< 0.05 U	--	< 0.05 U	< 0.00161 U	< 0.05 U	< 0.0012 U	< 0.00124 U	< 0.05 U	--
1,2-Dibromo-3-chloropropane	mg/kg	0.23	SL-1	< 0.00633 U	--	< 0.5 U	--	< 0.5 U	< 0.00804 U	< 0.5 U	< 0.00598 U	< 0.00621 U	< 0.5 U	--
1,2-Dibromoethane (EDB)	mg/kg	0.5	SL-1	< 0.00127 U	--	< 0.005 U	--	< 0.005 U	< 0.00161 U	< 0.005 U	< 0.0012 U	< 0.00124 U	< 0.005 U	--
1,2-Dichlorobenzene	mg/kg	0.035	SL-8	**0.016 J**	--	< 0.1 U	--	< 0.05 U	< 0.00161 U	< 0.5 U	< 0.0012 U	< 0.00124 U	< 0.025 U	--
1,2-Dichloroethane (EDC)	mg/kg	0.35	SL-3	< 0.00127 U	--	< 0.002 U	--	< 0.002 U	< 0.00161 U	< 0.002 U	< 0.0012 U	< 0.00124 U	< 0.002 U	--
1,2-Dichloropropane	mg/kg	0.016	SL-3	< 0.00127 U	--	< 0.05 U	--	< 0.05 U	< 0.00161 U	< 0.05 U	< 0.0012 U	< 0.00124 U	< 0.05 U	--
1,3,5-Trimethylbenzene	mg/kg	800	SL-1	< 0.00127 U	--	< 0.05 U	--	< 0.05 U	< 0.00161 U	< 0.05 U	< 0.0012 U	< 0.00124 U	< 0.05 U	--
1,3-Dichlorobenzene	mg/kg	0.023	SL-3	< 0.00127 U	--	< 0.1 U	--	< 0.05 U	< 0.00161 U	< 0.05 U	< 0.0012 U	< 0.00124 U	< 0.025 U	--
1,3-Dichloropropane	mg/kg	0.0066	SL-3	< 0.00127 U	--	< 0.05 U	--	< 0.05 U	< 0.00161 U	< 0.05 U	< 0.0012 U	< 0.00124 U	< 0.05 U	--
1,4-Dichloro-2-Butene	mg/kg			< 0.00633 U	--	--	--	--	< 0.00804 U	--	< 0.00598 U	< 0.00621 U	--	--
1,4-Dichlorobenzene	mg/kg	0.11	SL-8	< 0.00127 U	--	< 0.05 U	--	< 0.05 U	< 0.00161 U	< 0.05 U	< 0.0012 U	< 0.00124 U	< 0.025 U	--
2,2-Dichloropropane	mg/kg			< 0.00127 U	--	< 0.05 U	--	< 0.05 U	< 0.00161 U	< 0.05 U	< 0.0012 U	< 0.00124 U	< 0.05 U	--
2-Butanone	mg/kg	350	SL-9	< 0.00633 U	--	< 1 U	--	< 1 U	**0.0316**	< 1 U	**0.0084**	< 0.00621 U	< 1 U	--
2-Chloroethyl Vinyl Ether	mg/kg			< 0.00633 U	--	--	--	--	< 0.00804 U	--	< 0.00598 U	< 0.00621 U	--	--
2-Chlorotoluene	mg/kg	1600	SL-1	< 0.00127 U	--	< 0.05 U	--	< 0.05 U	< 0.00161 U	< 0.05 U	< 0.0012 U	< 0.00124 U	< 0.05 U	--
2-Hexanone	mg/kg	400	SL-1	< 0.00633 U	--	< 0.5 U	--	< 0.5 U	< 0.00804 U	< 0.5 U	< 0.00598 U	< 0.00621 U	< 0.5 U	--
2-Pentanone	mg/kg			< 0.00633 U	--	--	--	--	**0.0113**	--	< 0.00598 U	< 0.00621 U	--	--
4-Chlorotoluene	mg/kg	1600	SL-1	< 0.00127 U	--	< 0.05 U	--	< 0.05 U	< 0.00161 U	< 0.05 U	< 0.0012 U	< 0.00124 U	< 0.05 U	--
4-Methyl-2-pentanone	mg/kg	6400	SL-1	< 0.00633 U	--	< 1 U	--	< 1 U	< 0.00804 U	< 1 U	< 0.00598 U	< 0.00621 U	< 1 U	--
Acetone	mg/kg	1.2	SL-9	**0.157**	--	< 5 U	--	< 5 U	**0.359**	< 1.2 UJ	**0.279**	**0.0652 J**	< 1.2 UJ	--
Acrolein	mg/kg	0.0044	SL-3	< 0.00633 U	--	--	--	--	< 0.00804 U	--	< 0.00598 U	< 0.00621 U	--	--
Acrylonitrile	mg/kg	0.00012	SL-3	< 0.00633 U	--	--	--	--	< 0.00804 U	--	< 0.00598 U	< 0.00621 U	--	--
Bromobenzene	mg/kg	640	SL-1	< 0.00127 U	--	< 0.05 U	--	< 0.05 U	< 0.00161 U	< 0.05 U	< 0.0012 U	< 0.00124 U	< 0.05 U	--
Bromochloromethane	mg/kg			< 0.00127 U	--	--	--	--	< 0.00161 U	--	< 0.0012 U	< 0.00124 U	--	--
Bromodichloromethane	mg/kg	0.013	SL-3	< 0.00127 U	--	< 0.005 U	--	< 0.005 U	< 0.00161 U	< 0.005 U	< 0.0012 U	< 0.00124 U	< 0.005 U	--
Bromoform	mg/kg	0.078	SL-3	< 0.00127 U	--	< 0.05 U	--	< 0.05 U	< 0.00161 U	< 0.05 U	< 0.0012 U	< 0.00124 U	< 0.05 U	--
Bromomethane	mg/kg	0.24	SL-9	< 0.00127 U	--	< 0.1 U	--	< 0.1 U	< 0.00161 U	< 0.1 U	**0.00049 J**	< 0.00124 U	< 0.1 U	--
Carbon Disulfide	mg/kg	0.81	SL-9	< 0.00127 U	--	--	--	--	**0.001 J**	--	< 0.0012 U	< 0.00124 U	--	--
Carbon Tetrachloride	mg/kg	0.0029	SL-3	< 0.00127 U	--	< 0.005 U	--	< 0.005 U	< 0.00161 U	< 0.005 U	< 0.0012 U	< 0.00124 U	< 0.005 U	--
Chlorobenzene	mg/kg	1.7	SL-3	< 0.00127 U	--	< 0.05 U	--	< 0.05 U	< 0.00161 U	< 0.05 U	< 0.0012 U	< 0.00124 U	< 0.05 U	--
Chloroethane	mg/kg			< 0.00253 U	--	< 0.1 U	--	< 0.1 U	< 0.00322 U	< 0.1 U	< 0.00239 U	< 0.00249 U	< 0.1 U	--
Chloroform	mg/kg	0.81	SL-3	< 0.00127 U	--	< 0.05 U	--	< 0.05 U	< 0.00161 U	< 0.05 U	< 0.0012 U	< 0.00124 U	< 0.05 U	--
Chloromethane	mg/kg			< 0.00127 U	--	< 0.5 U	--	< 0.5 U	< 0.00161 U	< 0.5 U	< 0.0012 U	< 0.00124 U	< 0.5 U	--
cis-1,2-Dichloroethene (DCE)	mg/kg	24	SL-9	**0.00098 J**	--	< 0.001 U	--	< 0.001 U	< 0.00161 U	< 0.001 U	< 0.0012 U	< 0.00124 U	< 0.001 U	--
cis-1,3-Dichloropropene	mg/kg	0.0056	SL-3	< 0.00127 U	--	< 0.01 U	--	< 0.01 U	< 0.00161 U	< 0.01 U	< 0.0012 U	< 0.00124 U	< 0.01 U	--
Dibromochloromethane	mg/kg	0.01	SL-3	< 0.00127 U	--	< 0.01 U	--	< 0.01 U	< 0.00161 U	< 0.01 U	< 0.0012 U	< 0.00124 U	< 0.01 U	--
Dibromomethane	mg/kg	800	SL-1	< 0.00127 U	--	< 0.05 U	--	< 0.05 U	< 0.00161 U	< 0.05 U	< 0.0012 U	< 0.00124 U	< 0.05 U	--
Dichlorodifluoromethane	mg/kg	16000	SL-1	< 0.00127 U	--	< 0.5 U	--	< 0.5 U	< 0.00161 U	< 0.5 U	< 0.0012 U	< 0.00124 U	< 0.5 U	--
Isopropylbenzene	mg/kg	8000	SL-1	< 0.00127 U	--	< 0.05 U	--	< 0.05 U	< 0.00161 U	< 0.05 U	< 0.0012 U	< 0.00124 U	< 0.05 U	--
m,p-Xylenes	mg/kg			< 0.00253 U	--	< 0.002 U	--	< 0.002 U	< 0.00322 U	< 0.002 U	< 0.00239 U	< 0.00249 U	< 0.002 U	--
Methyl tert-butyl ether (MTBE)	mg/kg	560	SL-1	< 0.00127 U	--	< 0.001 U	--	< 0.001 U	< 0.00161 U	< 0.001 U	< 0.0012 U	< 0.00124 U	< 0.001 U	--
Methylene Chloride	mg/kg	0.43	SL-3	< 0.00633 U	--	R	--	R	< 0.00804 U	< 0.2 U	< 0.00598 U	< 0.00621 U	< 0.2 U	--
Methyliodide	mg/kg			< 0.00127 U	--	--	--	--	< 0.00161 U	--	< 0.0012 U	< 0.00124 U	--	--
n-Butylbenzene	mg/kg	4000	SL-1	< 0.00127 U	--	--	--	--	< 0.00161 U	--	< 0.0012 U	< 0.00124 U	--	--
n-Hexane	mg/kg	4800	SL-1	--	--	< 0.25 U	--	< 0.25 U	--	< 0.25 U	--	--	< 0.25 U	--
n-Propylbenzene	mg/kg	8000	SL-1	< 0.00127 U	--	< 0.05 U	--	< 0.05 U	< 0.00161 U	< 0.05 U	< 0.0012 U	< 0.00124 U	< 0.05 U	--
o-Xylene	mg/kg			< 0.00127 U	--	**0.0011**	--	< 0.001 U	< 0.00161 U	< 0.001 U	< 0.0012 U	< 0.00124 U	< 0.001 U	--
p-Isopropyltoluene	mg/kg	320	SL-1	< 0.00127 U	--	< 0.05 U	--	< 0.05 U	< 0.00161 U	< 0.05 U	< 0.0012 U	< 0.00124 U	< 0.05 U	--
sec-Butylbenzene	mg/kg	8000	SL-1	< 0.00127 U	--	< 0.05 U	--	< 0.05 U	< 0.00161 U	< 0.05 U	< 0.0012 U	< 0.00124 U	< 0.05 U	--
Styrene	mg/kg	4.7	SL-9	< 0.00127 U	--	< 0.05 U	--	< 0.05 U	< 0.00161 U	< 0.05 U	< 0.0012 U	< 0.00124 U	< 0.05 U	--
tert-Butylbenzene	mg/kg	8000	SL-1	< 0.00127 U	--	< 0.05 U	--	< 0.05 U	< 0.00161 U	< 0.05 U	< 0.0012 U	< 0.00124 U	< 0.05 U	--
Tetrachloroethene (PCE)	mg/kg	0.029	SL-3	**0.00517**	--	**0.014**	--	**0.028**	< 0.00161 U	< 0.001 U	**0.00122**	**0.0006 J**	**0.0041**	--
trans-1,2-Dichloroethene	mg/kg	0.78	SL-3	< 0.00127 U	--	< 0.002 U	--	< 0.002 U	< 0.00161 U	< 0.002 U	< 0.0012 U	< 0.00124 U	< 0.002 U	--
trans-1,3-Dichloropropene	mg/kg	0.0056	SL-3	< 0.00127 U	--	< 0.01 U	--	< 0.01 U	< 0.00161 U	< 0.01 U	< 0.0012 U	< 0.00124 U	< 0.01 U	--
Trichloroethene (TCE)	mg/kg	0.0044	SL-3	**0.00071 J**	--	< 0.001 U	--	< 0.001 U	< 0.00161 U	< 0.001 U	< 0.0012 U	< 0.00124 U	< 0.001 U	--
Trichlorofluoromethane	mg/kg	24000	SL-1	< 0.00253 U	--	< 0.5 U	--	< 0.5 U	< 0.00322 U	< 0.5 U	< 0.00239 U	< 0.00249 U	< 0.5 U	--
Vinyl Acetate	mg/kg	80000	SL-1	< 0.00633 U	--	--	--	--	< 0.00804 U	--	< 0.00598 U	< 0.00621 U	--	--
Vinyl Chloride	mg/kg	0.0011	SL-3	< 0.00127 U	--	< 0.001 U	--	< 0.001 U	< 0.00161 U	< 0.001 U	< 0.0012 U	< 0.00124 U	< 0.001 U	--
Conventionals														
Total Organic Carbon	%			**0.95**	--	--	--	--	**0.74**	--	**0.56**	**0.1**	--	--
Total Solids	%			**91.5**	--	--	**94.8**	--	**90.4**	--	**88.9**	**85.5**	--	--

Table I.3.B. Vadose Soil Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL

Location				MW-07			MW-08		MW-08D		MW-09		MW-09D
Date				03/09/21	03/09/21	03/09/21	03/09/21	03/09/21	09/15/22	09/15/22	03/09/21	03/09/21	09/14/22
Sample				MW-7-0-1	MW-7-3-5	MW-7-5-6	MW-8-0-1	MW-8-3-5	MW-08D-0-1	MW-08D-5-6	MW-9-0-1	MW-9-5-6	MW-09D-0-1
Depth				0 - 1 ft	3 - 5 ft	5 - 6 ft	0 - 1 ft	3 - 5 ft	0 - 1 ft	5 - 6 ft	0 - 1 ft	5 - 6 ft	0 - 1 ft
Geologic Unit				Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill
Analyte	Unit	Prelmiinary RI SL	Basis of SL										
Metals, Total													
Arsenic	mg/kg	7.3	SL-10	**3.71 J**	**2.26**	**2.03 J**	**5.42 J**	**2.62**	--	--	**1.84 J**	**5.58 J**	--
Barium	mg/kg	250	SL-10	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/kg	0.77	SL-10	**0.25**	**0.06 J**	**0.06 J**	**0.48**	**0.06 J**	--	--	**0.04 J**	< 0.12 U	--
Chromium	mg/kg	67	SL-9	**14.6 J**	**10.5**	**17.9 J**	**10.3 J**	**9.14**	--	--	**14.3 J**	**9.5 J**	--
Copper	mg/kg	36	SL-10	**65.3**	**15**	**18.1**	**45.7**	**12.8**	--	--	**12.6**	**15.5**	--
Lead	mg/kg	120	SL-9	**40 J**	**8.22**	**13.3 J**	**206 J**	**1.93**	--	--	**1.81 J**	**2 J**	--
Mercury	mg/kg	0.07	SL-10	**0.0469 J**	--	**0.0252 J**	**0.174 J**	--	--	--	**0.0103 J**	**0.0168 J**	--
Nickel	mg/kg	48	SL-10	**16.3 J**	**7.9**	**7.97 J**	**15.8 J**	**8.9**	--	--	**22.1 J**	**8.3 J**	--
Selenium	mg/kg	0.78	SL-10	--	--	--	--	--	--	--	--	--	--
Silver	mg/kg	0.61	SL-10	--	--	--	--	--	--	--	--	--	--
Zinc	mg/kg	100	SL-3	**71.7**	**36.8**	**47.5**	**90.2**	**21.3**	--	--	**24.6**	**21.2**	--
Butyl Tins													
Dibutyltin Ion	mg/kg			--	--	--	**0.00309 J**	--	< 0.00573 U	< 0.00575 U	< 0.00571 U	**0.00265 J**	--
Monobutyltin	mg/kg			--	--	--	**0.00297 J**	--	< 0.00405 U	< 0.00406 U	< 0.00403 U	**0.00197 J**	--
Tetrabutyltin	mg/kg			--	--	--	< 0.005 U	--	< 0.00496 U	< 0.00498 U	< 0.00494 U	< 0.00497 U	--
Tributyltin Ion	mg/kg	0.0021	SL-8	--	--	--	**0.00291 J**	--	< 0.00383 U	< 0.00384 U	< 0.00381 U	**0.00317 J**	--
Polychlorinated Biphenyl (PCB) Aroclors													
Total PCB Aroclors (ND = 0)	mg/kg	1.10E-05	SL-3	**0.0925**	--	**0.0422**	**0.0801**	--	--	--	**0.0009 J**	< 0.004 U	--
Polychlorinated Biphenyl (PCB) Congeners													
Total PCB Congeners (ND = 0)	mg/kg	1.10E-05	SL-3	--	--	--	**0.216 J**	--	--	--	--	--	--
Total PCB TEQ (ND = 0)	mg/kg	6.90E-09	SL-3	--	--	--	**7.57E-06**	--	--	--	--	--	--
Dioxins/Furans													
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	5.20E-06	SL-10	--	--	--	--	--	--	--	--	--	--
2,3,7,8-TCDD	mg/kg	5.20E-06	SL-10	--	--	--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)													
1-Methylnaphthalene	mg/kg	20	SL-1	< 0.00498 U	--	< 0.00496 U	< 0.005 U	--	--	< 0.0005 U	< 0.005 U	< 0.00498 U	--
2-Methylnaphthalene	mg/kg	0.67	SL-8	< 0.00498 U	--	< 0.00496 U	< 0.005 U	--	--	< 0.0005 U	< 0.005 U	< 0.00498 U	--
Acenaphthene	mg/kg	0.5	SL-8	< 0.00498 U	--	< 0.00496 U	< 0.005 U	--	--	< 0.0005 U	< 0.005 U	< 0.00498 U	--
Acenaphthylene	mg/kg	1.3	SL-8	**0.00364 J**	--	< 0.00496 U	**0.00549**	--	--	< 0.0005 U	< 0.005 U	< 0.00498 U	--
Anthracene	mg/kg	0.96	SL-8	**0.00467 J**	--	< 0.00496 U	**0.00761**	--	--	< 0.0005 U	< 0.005 U	< 0.00498 U	--
Benzo(g,h,i)perylene	mg/kg	0.67	SL-8	**0.017**	--	**0.00129 J**	**0.0594**	--	--	< 0.0005 U	< 0.005 U	< 0.00498 U	--
Fluoranthene	mg/kg	1.7	SL-8	**0.0181**	--	**0.00166 J**	**0.0263**	--	--	< 0.0005 U	< 0.005 U	**0.00225 J**	--
Fluorene	mg/kg	0.54	SL-8	**0.00092 J**	--	< 0.00496 U	**0.00094 J**	--	--	< 0.0005 U	< 0.005 U	< 0.00498 U	--
Naphthalene	mg/kg	0.039	SL-3	**0.00153 J**	--	< 0.00496 U	**0.00198 J**	--	--	< 0.0005 U	< 0.005 U	< 0.00498 U	< 0.005 U
Phenanthrene	mg/kg	1.5	SL-8	**0.0101**	--	**0.00154 J**	**0.00793**	--	--	< 0.0005 U	< 0.005 U	**0.00398 J**	--
Pyrene	mg/kg	2.6	SL-8	**0.0206**	--	**0.00177 J**	**0.0303**	--	--	< 0.0005 U	< 0.005 U	**0.0028 J**	--
Benz(a)anthracene	mg/kg	0.73	SL-9	**0.00996**	--	< 0.00496 U	**0.0165**	--	--	< 0.0005 U	< 0.005 U	**0.00091 J**	--
Benzo(a)pyrene	mg/kg	0.00031	SL-3	**0.0163**	--	**0.00128 J**	**0.04**	--	--	< 0.0005 U	< 0.005 U	**0.00088 J**	--
Benzo(b)fluoranthene	mg/kg	44	SL-9	**0.0173**	--	**0.00144 J**	**0.0611**	--	--	< 0.0005 U	< 0.005 U	< 0.00498 U	--
Benzo(j)fluoranthene	mg/kg			**0.011**	--	< 0.00496 U	**0.0277**	--	--	--	< 0.005 U	< 0.00498 U	--
Benzo(j,k)fluoranthene	mg/kg			--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	mg/kg	71	SL-9	**0.00986**	--	< 0.00496 U	**0.0275**	--	--	< 0.0005 U	< 0.005 U	< 0.00498 U	--
Chrysene	mg/kg	1.4	SL-8	**0.0172**	--	**0.00152 J**	**0.0391**	--	--	< 0.0005 U	< 0.005 U	**0.00167 J**	--
Dibenzo(a,h)anthracene	mg/kg	0.23	SL-8	**0.00355 J**	--	< 0.00496 U	**0.0103**	--	--	< 0.0005 U	< 0.005 U	< 0.00498 U	--
Indeno(1,2,3-cd)pyrene	mg/kg	0.6	SL-8	**0.0119**	--	< 0.00496 U	**0.049**	--	--	< 0.0005 U	< 0.005 U	< 0.00498 U	--
Total Benzofluoranthenes	mg/kg	1.1	SL-9	**0.0376**	--	< 0.00991 U	**0.115**	--	--	< 0.0005 U	< 0.00999 U	< 0.00996 U	--
Total HPAHs (ND = 1/2 RDL)	mg/kg	1.1	SL-9	**0.153 J**	--	**0.0214 J**	**0.387**	--	--	< 0.0005 U	< 0.005 U	**0.0234 J**	--
Total LPAHs (ND = 1/2 RDL)	mg/kg	5.2	SL-8	**0.0234 J**	--	**0.0139 J**	**0.0264 J**	--	--	< 0.0005 U	< 0.005 U	**0.0164 J**	--
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	0.00031	SL-3	**0.0217 J**	--	**0.00243 J**	**0.0568**	--	--	< 0.000378 U	< 0.00377 U	**0.00198 J**	--
Semivolatile Organic Compounds (SVOCs)													
1,2-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	mg/kg	0.00068	SL-3	--	--	--	--	--	--	< 0.0025 U	--	--	--
1,3-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--	--
1,4-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	mg/kg	2400	SL-1	--	--	--	--	--	--	--	--	--	--
2,3,5,6-Tetrachlorophenol	mg/kg			--	--	--	--	--	--	--	--	--	--
2,3-Dichloroaniline	mg/kg			--	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	mg/kg	22	SL-3	< 0.0995 U	--	< 0.0995 U	< 0.1 U	--	--	< 0.025 U	< 0.1 U	< 0.0995 U	--
2,4,6-Trichlorophenol	mg/kg	0.0033	SL-3	< 0.0995 U	--	< 0.0995 U	< 0.1 UJ	--	--	< 0.025 U	< 0.1 U	< 0.0995 U	--
2,4-Dichlorophenol	mg/kg	0.069	SL-3	< 0.0995 U	--	< 0.0995 U	< 0.1 U	--	--	< 0.025 U	< 0.1 U	< 0.0995 U	--
2,4-Dimethylphenol	mg/kg	0.029	SL-8	< 0.0995 U	--	< 0.0995 U	< 0.1 U	--	--	< 0.025 U	< 0.1 U	< 0.0995 U	--
2,4-Dinitrophenol	mg/kg	0.061	SL-9	< 0.199 UJ	--	< 0.199 UJ	< 0.2 U	--	--	< 0.075 U	< 0.2 UJ	< 0.199 UJ	--
2,4-Dinitrotoluene	mg/kg	0.0028	SL-3	< 0.0995 U	--	< 0.0995 U	< 0.1 U	--	--	< 0.012 U	< 0.1 U	< 0.0995 U	--
2,6-Dinitrotoluene	mg/kg	0.67	SL-1	< 0.0995 U	--	< 0.0995 U	< 0.1 U	--	--	< 0.012 U	< 0.1 U	< 0.0995 U	--
2-Chloronaphthalene	mg/kg	5.4	SL-3	< 0.0199 U	--	< 0.0199 U	< 0.02 U	--	--	< 0.0025 U	< 0.02 U	< 0.0199 U	--
2-Chlorophenol	mg/kg	0.2	SL-3	< 0.0199 U	--	< 0.0199 U	< 0.02 U	--	--	< 0.025 U	< 0.02 U	< 0.0199 U	--
2-Methylphenol	mg/kg	0.063	SL-8	< 0.0199 U	--	< 0.0199 U	< 0.02 U	--	--	< 0.025 U	< 0.02 U	< 0.0199 U	--
2-Nitroaniline	mg/kg	800	SL-1	< 0.0995 U	--	< 0.0995 U	< 0.1 U	--	--	< 0.012 U	< 0.1 U	< 0.0995 U	--
2-Nitrophenol	mg/kg			< 0.0199 U	--	< 0.0199 U	< 0.02 U	--	--	< 0.025 U	< 0.02 U	< 0.0199 U	--
3 & 4 Methylphenol	mg/kg			--	--	--	--	--	--	< 0.05 U	--	--	--
3,3'-Dichlorobenzidine	mg/kg	2.20E-04	SL-3	< 0.0995 U	--	< 0.0995 U	< 0.1 U	--	--	< 0.025 U	< 0.1 U	< 0.0995 U	--
3-Nitroaniline	mg/kg			< 0.0995 U	--	< 0.0995 U	< 0.1 U	--	--	< 0.25 U	< 0.1 U	< 0.0995 U	--
4,6-Dinitro-2-methylphenol	mg/kg	0.13	SL-3	< 0.199 U	--	< 0.199 U	< 0.2 U	--	--	< 0.075 U	< 0.2 U	< 0.199 U	--
4-Bromophenyl phenyl ether	mg/kg			< 0.0199 U	--	< 0.0199 U	< 0.02 U	--	--	< 0.0025 U	< 0.02 U	< 0.0199 U	--
4-Chloro-3-methylphenol	mg/kg	0.5	SL-3	< 0.0995 U	--	< 0.0995 U	< 0.1 U	--	--	< 0.025 U	< 0.1 U	< 0.0995 U	--
4-Chloroaniline	mg/kg	5	SL-1	< 0.0995 U	--	< 0.0995 U	< 0.1 U	--	--	< 0.25 U	< 0.1 U	< 0.0995 U	--
4-Chlorophenyl phenyl ether	mg/kg			< 0.0199 U	--	< 0.0199 U	< 0.02 U	--	--	< 0.0025 U	< 0.02 U	< 0.0199 U	--
4-Methylphenol	mg/kg	0.67	SL-8	< 0.0199 U	--	< 0.0199 U	< 0.02 UJ	--	--	< 0.05 UJ	< 0.02 U	< 0.0199 U	--
4-Nitroaniline	mg/kg	22	SL-9	< 0.0995 U	--	< 0.0995 U	< 0.1 U	--	--	< 0.25 U	< 0.1 U	< 0.0995 U	--
4-Nitrophenol	mg/kg			< 0.0995 U	--	< 0.0995 U	< 0.1 U	--	--	< 0.075 U	< 0.1 U	< 0.0995 U	--
Aniline	mg/kg	180	SL-1	--	--	--	--	--	--	--	--	--	--
Benzoic acid	mg/kg	0.65	SL-8	< 0.199 UJ	--	< 0.199 UJ	< 0.2 UJ	--	--	< 0.12 U	< 0.2 UJ	< 0.199 UJ	--
Benzyl alcohol	mg/kg	0.057	SL-8	< 0.0199 U	--	< 0.0199 U	< 0.02 U	--	--	< 0.025 U	< 0.02 U	< 0.0199 U	--
Benzyl butyl phthalate	mg/kg	0.0036	SL-3	< 0.0199 U	--	< 0.0199 U	**0.0126 J**	--	--	< 0.025 U	< 0.02 U	< 0.0199 U	--
Bis(2-chloro-1-methylethyl) ether	mg/kg	0.59	SL-3	< 0.0199 U	--	< 0.0199 U	< 0.02 U	--	--	< 0.0025 U	< 0.02 U	< 0.0199 U	--
Bis(2-chloroethoxy)methane	mg/kg	240	SL-1	< 0.0199 U	--	< 0.0199 U	< 0.02 U	--	--	< 0.0025 U	< 0.02 U	< 0.0199 U	--
Bis(2-chloroethyl) ether	mg/kg	0.00033	SL-3	< 0.0199 U	--	< 0.0199 U	< 0.02 U	--	--	< 0.0025 U	< 0.02 U	< 0.0199 U	--
bis(2-Chloroisopropyl)ether	mg/kg			--	--	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) adipate	mg/kg	830	SL-1	--	--	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate	mg/kg	0.02	SL-9	**0.0671**	--	< 0.0498 U	**0.0665**	--	--	< 0.04 U	< 0.05 U	< 0.0497 U	--
Carbazole	mg/kg	79	SL-9	< 0.0199 U	--	< 0.0199 U	< 0.02 U	--	--	< 0.0025 U	< 0.02 U	< 0.0199 U	--
Dibenzofuran	mg/kg	0.54	SL-8	< 0.00498 U	--	< 0.00496 U	< 0.005 U	--	--	< 0.0025 U	< 0.005 U	< 0.00498 U	--
Diethyl phthalate	mg/kg	0.2	SL-8	**0.263**	--	**0.023**	< 0.02 U	--	--	< 0.025 U	< 0.02 U	< 0.0199 U	--
Dimethyl phthalate	mg/kg	0.071	SL-8	**0.0262**	--	< 0.0199 U	**0.114**	--	--	< 0.025 U	< 0.02 U	< 0.0199 U	--
Di-n-butyl phthalate	mg/kg	0.011	SL-9	**0.0093 J**	--	< 0.0199 U	**0.0166 J**	--	--	< 0.025 U	< 0.02 U	< 0.0199 U	--
Di-n-octyl phthalate	mg/kg	0.91	SL-9	< 0.0199 U	--	< 0.0199 U	< 0.02 U	--	--	< 0.025 U	< 0.02 U	< 0.0199 U	--
Hexachlorobenzene	mg/kg	8.00E-06	SL-3	< 0.0005 U	--	< 0.0005 U	< 0.0005 U	--	--	< 0.0025 U	< 0.0005 U	< 0.0005 U	--
Hexachlorobutadiene	mg/kg	0.00021	SL-3	< 0.0005 U	--	< 0.0005 U	< 0.0005 U	--	--	< 0.0025 U	< 0.0005 U	< 0.0005 U	< 0.01 U
Hexachlorocyclopentadiene	mg/kg	0.032	SL-3	< 0.0995 UJ	--	< 0.0995 UJ	< 0.1 UJ	--	--	< 0.0075 U	< 0.1 UJ	< 0.0995 UJ	--
Hexachloroethane	mg/kg	0.00016	SL-3	< 0.0199 U	--	< 0.0199 U	< 0.02 U	--	--	< 0.0025 U	< 0.02 U	< 0.0199 U	--
Isophorone	mg/kg	0.58	SL-3	< 0.0199 U	--	< 0.0199 U	< 0.02 U	--	--	< 0.0025 U	< 0.02 U	< 0.0199 U	--
Nitrobenzene	mg/kg	0.64	SL-3	**0.0111 J**	--	**0.0268**	< 0.02 U	--	--	< 0.0025 U	< 0.02 U	< 0.0199 U	--
N-Nitrosodimethylamine	mg/kg	0.0015	SL-3	--	--	--	--	--	--	< 0.0025 U	--	--	--
N-Nitroso-di-n-propylamine	mg/kg	0.00055	SL-3	< 0.0199 U	--	< 0.0199 U	< 0.02 U	--	--	< 0.0025 U	< 0.02 U	< 0.0199 U	--
N-Nitrosodiphenylamine	mg/kg	0.028	SL-8	< 0.0199 U	--	< 0.0199 U	< 0.02 U	--	--	< 0.0025 U	< 0.02 U	< 0.0199 U	--
Pentachlorophenol	mg/kg	3.20E-05	SL-3	< 0.0995 UJ	--	< 0.0995 UJ	< 0.1 UJ	--	--	< 0.012 U	< 0.1 UJ	< 0.0995 UJ	--
Phenol	mg/kg	0.42	SL-8	< 0.0199 U	--	< 0.0199 U	< 0.02 U	--	--	< 0.025 U	< 0.02 U	< 0.0199 U	--
Pyridine	mg/kg	80	SL-1	--	--	--	--	--	--	--	--	--	--

Table I.3.B. Vadose Soil Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL

Location				MW-07			MW-08		MW-08D		MW-09		MW-09D
Date				03/09/21	03/09/21	03/09/21	03/09/21	03/09/21	09/15/22	09/15/22	03/09/21	03/09/21	09/14/22
Sample				MW-7-0-1	MW-7-3-5	MW-7-5-6	MW-8-0-1	MW-8-3-5	MW-08D-0-1	MW-08D-5-6	MW-9-0-1	MW-9-5-6	MW-09D-0-1
Depth				0 - 1 ft	3 - 5 ft	5 - 6 ft	0 - 1 ft	3 - 5 ft	0 - 1 ft	5 - 6 ft	0 - 1 ft	5 - 6 ft	0 - 1 ft
Geologic Unit				Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill
Analyte	Unit	Prelmiinary RI SL	Basis of SL										
Pesticides													
2,4'-DDD	mg/kg			< 0.00499 U	--	< 0.001 U	< 0.001 U	--	--	--	< 0.001 U	< 0.001 U	--
2,4'-DDE	mg/kg			< 0.001 U	--	< 0.001 U	< 0.001 U	--	--	--	< 0.001 U	< 0.001 U	--
2,4'-DDT	mg/kg			< 0.001 U	--	< 0.001 U	< 0.001 U	--	--	--	< 0.001 U	< 0.001 U	--
4,4'-DDD	mg/kg	7.30E-06	SL-3	< 0.001 U	--	< 0.001 U	< 0.001 U	--	--	--	< 0.001 U	< 0.001 U	--
4,4'-DDE	mg/kg	1.50E-06	SL-3	< 0.001 U	--	< 0.001 U	< 0.001 U	--	--	--	< 0.001 U	< 0.001 U	--
4,4'-DDT	mg/kg	1.60E-05	SL-3	< 0.001 U	--	< 0.001 U	< 0.00798 U	--	--	--	< 0.001 U	< 0.001 U	--
Aldrin	mg/kg	4.00E-08	SL-3	< 0.0005 U	--	< 0.0005 U	< 0.0005 U	--	--	--	**0.00079**	< 0.0005 U	--
Alpha-BHC	mg/kg	1.90E-06	SL-3	< 0.0005 U	--	< 0.002 U	< 0.0005 U	--	--	--	< 0.0005 U	< 0.0005 U	--
Beta-BHC	mg/kg	6.60E-05	SL-3	< 0.0005 U	--	< 0.0005 U	< 0.0005 U	--	--	--	< 0.0005 U	< 0.0005 U	--
Chlordane	mg/kg	2.30E-05	SL-3	--	--	--	--	--	--	--	--	--	--
cis-Chlordane	mg/kg	0.0001	SL-8	< 0.0005 U	--	< 0.0005 U	< 0.0005 U	--	--	--	< 0.0005 U	< 0.0005 U	--
cis-Nonachlor	mg/kg			< 0.001 U	--	< 0.001 U	< 0.001 U	--	--	--	< 0.001 U	< 0.001 U	--
Delta-BHC	mg/kg	0.0048	SL-1	< 0.0005 U	--	< 0.0005 U	< 0.0005 U	--	--	--	< 0.0005 U	< 0.0005 U	--
Dieldrin	mg/kg	3.60E-08	SL-3	< 0.00599 U	--	< 0.001 U	< 0.001 U	--	--	--	< 0.001 U	< 0.001 U	--
Endosulfan I	mg/kg	0.0012	SL-3	< 0.0005 U	--	< 0.0005 U	< 0.0005 U	--	--	--	< 0.0005 U	< 0.0005 U	--
Endosulfan II	mg/kg	0.0012	SL-3	< 0.001 U	--	< 0.001 U	< 0.001 U	--	--	--	< 0.001 U	< 0.001 U	--
Endosulfan Sulfate	mg/kg	2	SL-3	< 0.001 U	--	< 0.001 U	< 0.001 U	--	--	--	< 0.001 U	< 0.001 U	--
Endrin	mg/kg	0.00044	SL-3	< 0.001 UJ	--	< 0.001 UJ	< 0.001 UJ	--	--	--	< 0.001 UJ	< 0.001 UJ	--
Endrin Aldehyde	mg/kg	0.0024	SL-3	< 0.001 U	--	< 0.001 U	< 0.00299 U	--	--	--	< 0.001 U	< 0.001 U	--
Endrin ketone	mg/kg			< 0.001 U	--	< 0.001 U	< 0.001 U	--	--	--	< 0.001 U	< 0.001 U	--
Heptachlor	mg/kg	6.60E-08	SL-3	< 0.0005 U	--	< 0.0005 U	< 0.0005 U	--	--	--	< 0.0005 U	< 0.0005 U	--
Heptachlor Epoxide	mg/kg	4.90E-07	SL-3	< 0.0005 U	--	< 0.0005 U	< 0.0005 U	--	--	--	< 0.0005 U	< 0.0005 U	--
Lindane	mg/kg	0.0039	SL-3	< 0.0005 U	--	< 0.0005 U	< 0.0005 U	--	--	--	< 0.0005 U	< 0.0005 U	--
Methoxychlor	mg/kg	0.032	SL-3	< 0.00499 U	--	< 0.005 U	< 0.00499 U	--	--	--	< 0.005 U	< 0.00499 U	--
Mirex	mg/kg	0.0071	SL-3	< 0.001 U	--	< 0.001 U	< 0.001 U	--	--	--	< 0.001 U	< 0.001 U	--
Oxychlordane	mg/kg			< 0.001 U	--	< 0.001 U	< 0.001 U	--	--	--	< 0.001 U	< 0.001 U	--
Toxaphene	mg/kg	6.10E-05	SL-3	--	--	--	--	--	--	--	--	--	--
trans-Chlordane	mg/kg	0.0001	SL-8	< 0.0005 U	--	< 0.0005 U	< 0.0005 U	--	--	--	< 0.0005 U	< 0.0005 U	--
trans-Nonachlor	mg/kg			< 0.001 U	--	< 0.001 U	< 0.001 U	--	--	--	< 0.001 U	< 0.001 U	--
Total Petroleum Hydrocarbons (TPH)													
Gasoline Range Organics	mg/kg	30	SL-3	< 6.5 U	--	< 7.63 U	< 6.31 U	--	--	--	**15.6**	< 7.13 U	--
Diesel Range Organics	mg/kg	2000	SL-9	< 55.2 U	--	< 59 U	< 55.1 U	--	--	--	< 58.7 U	< 65.9 U	--
Motor Oil Range Organics	mg/kg	2000	SL-9	**117**	--	< 118 U	< 110 U	--	--	--	< 117 U	< 132 U	--
Diesel and Oil Extended Range Organics	mg/kg	2000	SL-9	**117**	--	< 118 U	< 110 U	--	--	--	< 117 U	< 132 U	--
Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)													
Benzene	mg/kg	0.0088	SL-3	< 0.00131 U	--	< 0.00174 U	< 0.00158 U	--	--	--	< 0.00117 U	**0.00056 J**	< 0.001 U
Toluene	mg/kg	0.72	SL-3	< 0.00131 U	--	**0.00136 J**	< 0.00158 U	--	--	--	< 0.00117 U	< 0.00109 U	< 0.001 U
Ethylbenzene	mg/kg	0.18	SL-3	< 0.00131 U	--	< 0.00174 U	< 0.00158 U	--	--	--	< 0.00117 U	< 0.00109 U	< 0.001 U
Total Xylenes	mg/kg	0.94	SL-3	< 0.00262 U	--	< 0.00349 U	< 0.00316 U	--	--	--	< 0.00235 U	< 0.00218 U	< 0.002 U
Volatile Organic Compounds (VOCs)													
1,1,1,2-Tetrachloroethane	mg/kg	38	SL-1	< 0.00131 U	--	< 0.00174 U	< 0.00158 U	--	--	--	< 0.00117 U	< 0.00109 U	< 0.05 U
1,1,1-Trichloroethane	mg/kg	370	SL-3	< 0.00131 U	--	< 0.00174 U	< 0.00158 U	--	--	--	< 0.00117 U	< 0.00109 U	< 0.002 U
1,1,2 - Trichlorotrifluoroethane	mg/kg	2400000	SL-1	< 0.00262 U	--	< 0.00349 U	< 0.00316 U	--	--	--	< 0.00235 U	< 0.00218 U	--
1,1,2,2-Tetrachloroethane	mg/kg	0.0017	SL-3	< 0.00131 U	--	< 0.00174 U	< 0.00158 U	--	--	--	< 0.00117 U	< 0.00109 U	< 0.05 U
1,1,2-Trichloroethane	mg/kg	0.005	SL-3	< 0.00131 U	--	< 0.00174 U	< 0.00158 U	--	--	--	< 0.00117 U	< 0.00109 U	< 0.005 U
1,1-Dichloroethane	mg/kg	180	SL-1	< 0.00131 U	--	< 0.00174 U	< 0.00158 U	--	--	--	< 0.00117 U	< 0.00109 U	< 0.002 U
1,1-Dichloroethene	mg/kg	11	SL-9	< 0.00131 U	--	< 0.00174 U	< 0.00158 U	--	--	--	< 0.00117 U	< 0.00109 U	< 0.001 U
1,1-Dichloropropene	mg/kg			< 0.00131 U	--	< 0.00174 U	< 0.00158 U	--	--	--	< 0.00117 U	< 0.00109 U	< 0.05 U
1,2,3-Trichlorobenzene	mg/kg	64	SL-1	< 0.00654 U	--	< 0.00872 U	< 0.00789 U	--	--	--	< 0.00587 U	< 0.00544 U	< 0.25 U
1,2,3-Trichloropropane	mg/kg	0.0063	SL-1	< 0.00262 U	--	< 0.00349 U	< 0.00316 U	--	--	--	< 0.00235 U	< 0.00218 U	< 0.05 U
1,2,4-Trichlorobenzene	mg/kg	0.0014	SL-3	< 0.00654 U	--	< 0.00872 U	< 0.00789 U	--	--	< 0.0025 U	< 0.00587 U	< 0.00544 U	< 0.01 U
1,2,4-Trimethylbenzene	mg/kg	800	SL-1	< 0.00131 U	--	< 0.00174 U	< 0.00158 U	--	--	--	< 0.00117 U	< 0.00109 U	< 0.05 U
1,2-Dibromo-3-chloropropane	mg/kg	0.23	SL-1	< 0.00654 U	--	< 0.00872 U	< 0.00789 U	--	--	--	< 0.00587 U	< 0.00544 U	< 0.5 U
1,2-Dibromoethane (EDB)	mg/kg	0.5	SL-1	< 0.00131 U	--	< 0.00174 U	< 0.00158 U	--	--	--	< 0.00117 U	< 0.00109 U	< 0.005 U
1,2-Dichlorobenzene	mg/kg	0.035	SL-8	< 0.00131 U	--	< 0.00174 U	< 0.00158 U	--	--	< 0.0025 U	< 0.00117 U	< 0.00109 U	< 0.05 U
1,2-Dichloroethane (EDC)	mg/kg	0.35	SL-3	< 0.00131 U	--	< 0.00174 U	< 0.00158 U	--	--	--	< 0.00117 U	< 0.00109 U	< 0.002 U
1,2-Dichloropropane	mg/kg	0.016	SL-3	< 0.00131 U	--	< 0.00174 U	< 0.00158 U	--	--	--	< 0.00117 U	< 0.00109 U	< 0.05 U
1,3,5-Trimethylbenzene	mg/kg	800	SL-1	< 0.00131 U	--	< 0.00174 U	< 0.00158 U	--	--	--	< 0.00117 U	< 0.00109 U	< 0.05 U
1,3-Dichlorobenzene	mg/kg	0.023	SL-3	< 0.00131 U	--	< 0.00174 U	< 0.00158 U	--	--	< 0.0025 U	< 0.00117 U	< 0.00109 U	< 0.05 U
1,3-Dichloropropane	mg/kg	0.0066	SL-3	< 0.00131 U	--	< 0.00174 U	< 0.00158 U	--	--	--	< 0.00117 U	< 0.00109 U	< 0.05 U
1,4-Dichloro-2-Butene	mg/kg			< 0.00654 U	--	< 0.00872 U	< 0.00789 U	--	--	--	< 0.00587 U	< 0.00544 U	--
1,4-Dichlorobenzene	mg/kg	0.11	SL-8	< 0.00131 U	--	< 0.00174 U	< 0.00158 U	--	--	< 0.0025 U	< 0.00117 U	< 0.00109 U	< 0.05 U
2,2-Dichloropropane	mg/kg			< 0.00131 U	--	< 0.00174 U	< 0.00158 U	--	--	--	< 0.00117 U	< 0.00109 U	< 0.05 U
2-Butanone	mg/kg	350	SL-9	**0.0135**	--	**0.0177**	< 0.00789 U	--	--	--	< 0.00587 U	< 0.00544 U	< 1 U
2-Chloroethyl Vinyl Ether	mg/kg			< 0.00654 UJ	--	< 0.00872 UJ	< 0.00789 UJ	--	--	--	< 0.00587 UJ	< 0.00544 UJ	--
2-Chlorotoluene	mg/kg	1600	SL-1	< 0.00131 U	--	< 0.00174 U	< 0.00158 U	--	--	--	< 0.00117 U	< 0.00109 U	< 0.05 U
2-Hexanone	mg/kg	400	SL-1	< 0.00654 U	--	< 0.00872 U	< 0.00789 U	--	--	--	< 0.00587 U	< 0.00544 U	< 0.5 U
2-Pentanone	mg/kg			< 0.00654 U	--	< 0.00872 U	< 0.00789 U	--	--	--	< 0.00587 U	< 0.00544 U	--
4-Chlorotoluene	mg/kg	1600	SL-1	< 0.00131 U	--	< 0.00174 U	< 0.00158 U	--	--	--	< 0.00117 U	< 0.00109 U	< 0.05 U
4-Methyl-2-pentanone	mg/kg	6400	SL-1	< 0.00654 U	--	< 0.00872 U	< 0.00789 U	--	--	--	< 0.00587 U	< 0.00544 U	< 1 U
Acetone	mg/kg	1.2	SL-9	**0.171**	--	**0.213**	**0.125**	--	--	--	**0.0695**	**0.067**	< 5 U
Acrolein	mg/kg	0.0044	SL-3	< 0.00654 U	--	< 0.00872 U	< 0.00789 U	--	--	--	< 0.00587 U	< 0.00544 U	--
Acrylonitrile	mg/kg	0.00012	SL-3	< 0.00654 UJ	--	< 0.00872 UJ	< 0.00789 UJ	--	--	--	< 0.00587 UJ	< 0.00544 UJ	--
Bromobenzene	mg/kg	640	SL-1	< 0.00131 U	--	< 0.00174 U	< 0.00158 U	--	--	--	< 0.00117 U	< 0.00109 U	< 0.05 U
Bromochloromethane	mg/kg			< 0.00131 U	--	< 0.00174 U	< 0.00158 U	--	--	--	< 0.00117 U	< 0.00109 U	--
Bromodichloromethane	mg/kg	0.013	SL-3	< 0.00131 U	--	< 0.00174 U	< 0.00158 U	--	--	--	< 0.00117 U	< 0.00109 U	< 0.005 U
Bromoform	mg/kg	0.078	SL-3	< 0.00131 U	--	< 0.00174 U	< 0.00158 U	--	--	--	< 0.00117 U	< 0.00109 U	< 0.05 U
Bromomethane	mg/kg	0.24	SL-9	< 0.00131 U	--	< 0.00174 U	< 0.00158 U	--	--	--	< 0.00117 U	< 0.00109 U	< 0.1 U
Carbon Disulfide	mg/kg	0.81	SL-9	**0.00104 J**	--	**0.00246**	< 0.00158 U	--	--	--	< 0.00117 U	< 0.00109 U	--
Carbon Tetrachloride	mg/kg	0.0029	SL-3	< 0.00131 U	--	< 0.00174 U	< 0.00158 U	--	--	--	< 0.00117 U	< 0.00109 U	< 0.005 U
Chlorobenzene	mg/kg	1.7	SL-3	< 0.00131 U	--	< 0.00174 U	< 0.00158 U	--	--	--	< 0.00117 U	< 0.00109 U	< 0.05 U
Chloroethane	mg/kg			< 0.00262 U	--	< 0.00349 U	< 0.00316 U	--	--	--	< 0.00235 U	< 0.00218 U	< 0.1 U
Chloroform	mg/kg	0.81	SL-3	< 0.00131 U	--	< 0.00174 U	< 0.00158 U	--	--	--	< 0.00117 U	< 0.00109 U	< 0.05 U
Chloromethane	mg/kg			< 0.00131 U	--	< 0.00174 U	< 0.00158 U	--	--	--	< 0.00117 U	< 0.00109 U	< 0.5 U
cis-1,2-Dichloroethene (DCE)	mg/kg	24	SL-9	< 0.00131 U	--	< 0.00174 U	< 0.00158 U	--	--	--	< 0.00117 U	**0.00076 J**	< 0.001 U
cis-1,3-Dichloropropene	mg/kg	0.0056	SL-3	< 0.00131 U	--	< 0.00174 U	< 0.00158 U	--	--	--	< 0.00117 U	< 0.00109 U	< 0.01 U
Dibromochloromethane	mg/kg	0.01	SL-3	< 0.00131 U	--	< 0.00174 U	< 0.00158 U	--	--	--	< 0.00117 U	< 0.00109 U	< 0.01 U
Dibromomethane	mg/kg	800	SL-1	< 0.00131 U	--	< 0.00174 U	< 0.00158 U	--	--	--	< 0.00117 U	< 0.00109 U	< 0.05 U
Dichlorodifluoromethane	mg/kg	16000	SL-1	< 0.00131 U	--	< 0.00174 U	< 0.00158 U	--	--	--	< 0.00117 U	< 0.00109 U	< 0.5 U
Isopropylbenzene	mg/kg	8000	SL-1	< 0.00131 U	--	< 0.00174 U	< 0.00158 U	--	--	--	< 0.00117 U	< 0.00109 U	< 0.05 U
m,p-Xylenes	mg/kg			< 0.00262 U	--	< 0.00349 U	< 0.00316 U	--	--	--	< 0.00235 U	< 0.00218 U	< 0.002 U
Methyl tert-butyl ether (MTBE)	mg/kg	560	SL-1	< 0.00131 U	--	< 0.00174 U	< 0.00158 U	--	--	--	< 0.00117 U	< 0.00109 U	< 0.001 U
Methylene Chloride	mg/kg	0.43	SL-3	< 0.00654 U	--	< 0.00872 U	< 0.00789 U	--	--	--	< 0.00587 U	< 0.00544 U	< 0.2 U
Methyliodide	mg/kg			< 0.00131 U	--	< 0.00174 U	< 0.00158 U	--	--	--	< 0.00117 U	< 0.00109 U	--
n-Butylbenzene	mg/kg	4000	SL-1	< 0.00131 U	--	< 0.00174 U	< 0.00158 U	--	--	--	< 0.00117 U	< 0.00109 U	--
n-Hexane	mg/kg	4800	SL-1	--	--	--	--	--	--	--	--	--	< 0.25 U
n-Propylbenzene	mg/kg	8000	SL-1	< 0.00131 U	--	< 0.00174 U	< 0.00158 U	--	--	--	< 0.00117 U	< 0.00109 U	< 0.05 U
o-Xylene	mg/kg			< 0.00131 U	--	< 0.00174 U	< 0.00158 U	--	--	--	< 0.00117 U	< 0.00109 U	< 0.001 U
p-Isopropyltoluene	mg/kg	320	SL-1	< 0.00131 U	--	< 0.00174 U	< 0.00158 U	--	--	--	< 0.00117 U	< 0.00109 U	< 0.05 U
sec-Butylbenzene	mg/kg	8000	SL-1	< 0.00131 U	--	< 0.00174 U	< 0.00158 U	--	--	--	< 0.00117 U	< 0.00109 U	< 0.05 U
Styrene	mg/kg	4.7	SL-9	< 0.00131 U	--	< 0.00174 U	< 0.00158 U	--	--	--	< 0.00117 U	< 0.00109 U	< 0.05 U
tert-Butylbenzene	mg/kg	8000	SL-1	< 0.00131 U	--	< 0.00174 U	< 0.00158 U	--	--	--	< 0.00117 U	< 0.00109 U	< 0.05 U
Tetrachloroethene (PCE)	mg/kg	0.029	SL-3	< 0.00131 U	--	< 0.00174 U	< 0.00158 U	--	--	--	**0.00111 J**	**0.0163**	**0.013**
trans-1,2-Dichloroethene	mg/kg	0.78	SL-3	< 0.00131 U	--	< 0.00174 U	< 0.00158 U	--	--	--	< 0.00117 U	< 0.00109 U	< 0.002 U
trans-1,3-Dichloropropene	mg/kg	0.0056	SL-3	< 0.00131 U	--	< 0.00174 U	< 0.00158 U	--	--	--	< 0.00117 U	< 0.00109 U	< 0.01 U
Trichloroethene (TCE)	mg/kg	0.0044	SL-3	< 0.00131 U	--	< 0.00174 U	< 0.00158 U	--	--	--	< 0.00117 U	**0.00209**	< 0.001 U
Trichlorofluoromethane	mg/kg	24000	SL-1	< 0.00262 U	--	< 0.00349 U	< 0.00316 U	--	--	--	< 0.00235 U	< 0.00218 U	< 0.5 U
Vinyl Acetate	mg/kg	80000	SL-1	< 0.00654 U	--	< 0.00872 U	< 0.00789 U	--	--	--	< 0.00587 U	< 0.00544 U	--
Vinyl Chloride	mg/kg	0.0011	SL-3	< 0.00131 U	--	< 0.00174 U	< 0.00158 U	--	--	--	< 0.00117 U	< 0.00109 U	< 0.001 U
Conventionals													
Total Organic Carbon	%			**0.21**	--	< 0.02 U	**0.22**	--	--	--	< 0.02 U	**0.22**	--
Total Solids	%			**90.3**	--	**79.4**	**90.9**	--	--	--	**94.7**	**76.4**	--

Table I.3.B. Vadose Soil Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL

				Location	MW-10	MW-11		MW-11D		MW-12		MW-13	
				Date	03/08/21	03/08/21	03/08/21	09/15/22	09/15/22	03/03/21	03/03/21	03/01/21	03/01/21
				Sample	MW-10-0-1	MW-11-0-1	MW-11-3-5	MW-11D-0-1	MW-11D-5-6	MW-12-0-1	MW-12-3-5	MW-13-0-1	MW-13-3-5
				Depth	0 - 1 ft	0 - 1 ft	3 - 5 ft	0 - 1 ft	5 - 6 ft	0 - 1 ft	3 - 5 ft	0 - 1 ft	3 - 5 ft
				Geologic Unit	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill
Analyte	Unit	Prelmiinary RI SL	Basis of SL										
Metals, Total													
Arsenic	mg/kg	7.3	SL-10	**5.08**	**5.75**	--	**3.36**	**3.19**	**3.59**	**10.3**	**3.77 J**	**2.23 J**
Barium	mg/kg	250	SL-10	--	--	--	--	--	--	--	--	--
Cadmium	mg/kg	0.77	SL-10	**0.26**	**0.66**	--	< 0.2 U	**0.377**	**0.15**	**0.67**	**0.07 J**	**0.04 J**
Chromium	mg/kg	67	SL-9	**12.4**	**15.1**	--	**7.37**	**16.1**	**23.1**	**14.8**	**7.88**	**9.85**
Copper	mg/kg	36	SL-10	**31.5**	**71.3**	--	**16.2**	**47.7**	**22.9**	**88.1**	**9.65 J**	**10.2 J**
Lead	mg/kg	120	SL-9	**34.4**	**23.4**	--	**315**	**4.74**	**39.4 J**	**332 J**	**9.53 J**	**4.98 J**
Mercury	mg/kg	0.07	SL-10	**0.0382**	**0.0339**	--	< 0.025 U	--	**0.0276**	**0.302**	**0.0192 J**	**0.0161 J**
Nickel	mg/kg	48	SL-10	**12.4**	**19.7**	--	**7.18**	**7.62**	**32.3**	**12**	**6.57**	**8.34**
Selenium	mg/kg	0.78	SL-10	--	--	--	--	--	--	--	--	--
Silver	mg/kg	0.61	SL-10	--	--	--	--	--	--	--	--	--
Zinc	mg/kg	100	SL-3	**60.5**	**104**	--	**31.6**	**32.9**	**48.7**	**134**	**21.7**	**23.1**
Butyl Tins													
Dibutyltin Ion	mg/kg			< 0.00576 U	**0.0232**	--	< 0.00555 U	< 0.00578 U	--	--	--	--
Monobutyltin	mg/kg			< 0.00407 U	**0.00868**	--	< 0.00392 U	< 0.00408 U	--	--	--	--
Tetrabutyltin	mg/kg			< 0.00498 U	< 0.00497 U	--	< 0.0048 U	< 0.005 U	--	--	--	--
Tributyltin Ion	mg/kg	0.0021	SL-8	**0.00058 J**	**0.0496**	--	< 0.00371 U	< 0.00386 U	--	--	--	--
Polychlorinated Biphenyl (PCB) Aroclors													
Total PCB Aroclors (ND = 0)	mg/kg	1.10E-05	SL-3	**0.0527**	**0.0799**	**0.0234**	**0.041**	--	**0.0226**	**0.0542**	< 0.004 U	< 0.004 U
Polychlorinated Biphenyl (PCB) Congeners													
Total PCB Congeners (ND = 0)	mg/kg	1.10E-05	SL-3	**0.0362 J**	--	--	**0.122 J**	--	--	--	--	--
Total PCB TEQ (ND = 0)	mg/kg	6.90E-09	SL-3	**1.69E-06**	--	--	**1.34E-06 J**	--	--	--	--	--
Dioxins/Furans													
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	5.20E-06	SL-10	--	--	--	**1.18E-06 J**	--	--	--	--	--
2,3,7,8-TCDD	mg/kg	5.20E-06	SL-10	--	--	--	**4.80E-08**	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)													
1-Methylnaphthalene	mg/kg	20	SL-1	< 0.005 U	< 0.0249 U	--	< 0.005 U	< 0.0005 U	< 0.00498 U	< 0.005 U	< 0.00497 U	< 0.005 U
2-Methylnaphthalene	mg/kg	0.67	SL-8	< 0.005 U	< 0.0249 U	--	< 0.005 U	< 0.0005 U	< 0.00498 U	< 0.005 U	< 0.00497 U	< 0.005 U
Acenaphthene	mg/kg	0.5	SL-8	< 0.005 U	< 0.0249 U	--	< 0.005 U	< 0.0005 U	**0.00068 J**	< 0.005 U	< 0.00497 U	< 0.005 U
Acenaphthylene	mg/kg	1.3	SL-8	**0.00427 J**	**0.00559 J**	--	< 0.005 U	< 0.0005 U	< 0.00498 U	**0.00203 J**	< 0.00497 U	< 0.005 U
Anthracene	mg/kg	0.96	SL-8	**0.00521**	**0.00689 J**	--	< 0.005 U	< 0.0005 U	**0.00105 J**	**0.00153 J**	< 0.00497 U	< 0.005 U
Benzo(g,h,i)perylene	mg/kg	0.67	SL-8	**0.065**	**0.14**	--	**0.011**	< 0.0005 U	**0.0067**	**0.0142**	**0.00935**	**0.0106**
Fluoranthene	mg/kg	1.7	SL-8	**0.0136**	**0.0299**	--	**0.041**	< 0.0005 U	**0.00864**	**0.0197**	**0.0102**	**0.0106 J**
Fluorene	mg/kg	0.54	SL-8	< 0.005 U	< 0.0249 U	--	< 0.005 U	< 0.0005 U	< 0.00498 U	< 0.005 U	< 0.00497 U	< 0.005 U
Naphthalene	mg/kg	0.039	SL-3	**0.00132 J**	< 0.00552 U	--	< 0.005 U	< 0.0005 U	< 0.00474 U	< 0.00466 U	< 0.00497 U	< 0.005 U
Phenanthrene	mg/kg	1.5	SL-8	**0.00366 J**	**0.0117 J**	--	**0.028**	**0.00054**	< 0.00498 U	**0.0124**	**0.00351 J**	**0.00378 J**
Pyrene	mg/kg	2.6	SL-8	**0.0172**	**0.0399**	--	**0.066**	< 0.0005 U	**0.0119**	**0.0241**	**0.0132**	**0.0145 J**
Benz(a)anthracene	mg/kg	0.73	SL-9	**0.0126**	**0.0181 J**	--	**0.023**	< 0.0005 U	**0.00356 J**	**0.0112**	**0.00469 J**	**0.00579**
Benzo(a)pyrene	mg/kg	0.00031	SL-3	**0.0627**	**0.0404**	--	**0.025**	< 0.0005 U	**0.00587**	**0.0127**	**0.0077**	**0.00909 J**
Benzo(b)fluoranthene	mg/kg	44	SL-9	**0.107**	**0.0495**	--	**0.033**	< 0.0005 U	**0.00574**	**0.0137**	**0.00676**	**0.00744**
Benzo(j)fluoranthene	mg/kg			**0.0443**	**0.022 J**	--	--	--	**0.00375 J**	**0.00837**	**0.00412 J**	**0.00525**
Benzo(j,k)fluoranthene	mg/kg			--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	mg/kg	71	SL-9	**0.0429**	**0.0184 J**	--	**0.01**	< 0.0005 U	**0.00332 J**	**0.0067**	**0.00331 J**	**0.00466 J**
Chrysene	mg/kg	1.4	SL-8	**0.0423**	**0.0568**	--	**0.038**	< 0.0005 U	**0.00663**	**0.0159**	**0.0067**	**0.00739**
Dibenzo(a,h)anthracene	mg/kg	0.23	SL-8	**0.012**	**0.0171 J**	--	< 0.005 U	< 0.0005 U	**0.0019 J**	**0.00326 J**	**0.00174 J**	**0.00199 J**
Indeno(1,2,3-cd)pyrene	mg/kg	0.6	SL-8	**0.0557**	**0.0703**	--	**0.01**	< 0.0005 U	**0.00467 J**	**0.0125**	**0.00638**	**0.00749**
Total Benzofluoranthenes	mg/kg	1.1	SL-9	**0.194**	**0.089**	--	**0.043**	< 0.0005 U	**0.0128**	**0.0303**	**0.0154**	**0.0174**
Total HPAHs (ND = 1/2 RDL)	mg/kg	1.1	SL-9	**0.475**	**0.502 J**	--	**0.26**	< 0.0005 U	**0.0627 J**	**0.142 J**	**0.0742 J**	**0.0848 J**
Total LPAHs (ND = 1/2 RDL)	mg/kg	5.2	SL-8	**0.0195 J**	**0.0519 J**	--	**0.0405**	**0.00179**	**0.0116 J**	**0.0233 J**	**0.0159 J**	**0.0163 J**
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	0.00031	SL-3	**0.0861**	**0.0583 J**	--	**0.0332**	< 0.000378 U	**0.00786 J**	**0.0176 J**	**0.0101 J**	**0.0119 J**
Semivolatile Organic Compounds (SVOCs)													
1,2-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	mg/kg	0.00068	SL-3	--	--	--	< 0.025 U	--	--	--	--	--
1,3-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--
1,4-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	mg/kg	2400	SL-1	--	--	--	--	--	--	--	--	--
2,3,5,6-Tetrachlorophenol	mg/kg			--	--	--	--	--	--	--	--	--
2,3-Dichloroaniline	mg/kg			--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	mg/kg	22	SL-3	< 0.0999 U	< 0.0997 U	--	< 0.25 U	--	--	--	--	--
2,4,6-Trichlorophenol	mg/kg	0.0033	SL-3	< 0.0999 U	< 0.0997 U	--	< 0.25 U	--	--	--	--	--
2,4-Dichlorophenol	mg/kg	0.069	SL-3	< 0.0999 U	< 0.0997 U	--	< 0.25 U	--	--	--	--	--
2,4-Dimethylphenol	mg/kg	0.029	SL-8	< 0.0999 U	< 0.0997 U	--	< 0.25 U	--	--	--	--	--
2,4-Dinitrophenol	mg/kg	0.061	SL-9	< 0.2 UJ	< 0.199 UJ	--	< 0.75 U	--	--	--	--	--
2,4-Dinitrotoluene	mg/kg	0.0028	SL-3	< 0.0999 U	< 0.0997 U	--	< 0.12 U	--	--	--	--	--
2,6-Dinitrotoluene	mg/kg	0.67	SL-1	< 0.0999 U	< 0.0997 U	--	< 0.12 U	--	--	--	--	--
2-Chloronaphthalene	mg/kg	5.4	SL-3	< 0.02 U	< 0.0199 U	--	< 0.025 U	--	--	--	--	--
2-Chlorophenol	mg/kg	0.2	SL-3	< 0.02 U	< 0.0199 U	--	< 0.25 U	--	--	--	--	--
2-Methylphenol	mg/kg	0.063	SL-8	< 0.02 U	< 0.0199 U	--	< 0.25 U	--	--	--	--	--
2-Nitroaniline	mg/kg	800	SL-1	< 0.0999 U	< 0.0997 U	--	< 0.12 U	--	--	--	--	--
2-Nitrophenol	mg/kg			< 0.02 U	< 0.0199 U	--	< 0.25 U	--	--	--	--	--
3 & 4 Methylphenol	mg/kg			--	--	--	< 0.5 U	--	--	--	--	--
3,3'-Dichlorobenzidine	mg/kg	2.20E-04	SL-3	< 0.0999 U	< 0.0997 U	--	< 0.25 U	--	--	--	--	--
3-Nitroaniline	mg/kg			< 0.0999 U	< 0.0997 U	--	< 2.5 U	--	--	--	--	--
4,6-Dinitro-2-methylphenol	mg/kg	0.13	SL-3	< 0.2 U	< 0.199 U	--	< 0.75 U	--	--	--	--	--
4-Bromophenyl phenyl ether	mg/kg			< 0.02 U	< 0.0199 U	--	< 0.025 U	--	--	--	--	--
4-Chloro-3-methylphenol	mg/kg	0.5	SL-3	< 0.0999 U	< 0.0997 U	--	< 0.25 U	--	--	--	--	--
4-Chloroaniline	mg/kg	5	SL-1	< 0.0999 U	< 0.0997 U	--	< 2.5 U	--	--	--	--	--
4-Chlorophenyl phenyl ether	mg/kg			< 0.02 U	< 0.0199 U	--	< 0.025 U	--	--	--	--	--
4-Methylphenol	mg/kg	0.67	SL-8	< 0.02 UJ	< 0.0199 UJ	--	< 0.5 U	--	--	--	--	--
4-Nitroaniline	mg/kg	22	SL-9	< 0.0999 U	< 0.0997 U	--	< 2.5 U	--	--	--	--	--
4-Nitrophenol	mg/kg			< 0.0999 U	< 0.0997 U	--	< 0.75 U	--	--	--	--	--
Aniline	mg/kg	180	SL-1	--	--	--	--	--	--	--	--	--
Benzoic acid	mg/kg	0.65	SL-8	< 0.2 UJ	< 0.199 UJ	--	< 1.2 U	--	--	--	--	--
Benzyl alcohol	mg/kg	0.057	SL-8	< 0.02 U	< 0.0199 U	--	< 0.25 U	--	--	--	--	--
Benzyl butyl phthalate	mg/kg	0.0036	SL-3	< 0.02 U	**0.0303**	--	< 0.25 U	--	--	--	--	--
Bis(2-chloro-1-methylethyl) ether	mg/kg	0.59	SL-3	< 0.02 U	< 0.0199 U	--	< 0.025 U	--	--	--	--	--
Bis(2-chloroethoxy)methane	mg/kg	240	SL-1	< 0.02 U	< 0.0199 U	--	< 0.025 U	--	--	--	--	--
Bis(2-chloroethyl) ether	mg/kg	0.00033	SL-3	< 0.02 U	< 0.0199 U	--	< 0.025 U	--	--	--	--	--
bis(2-Chloroisopropyl)ether	mg/kg			--	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) adipate	mg/kg	830	SL-1	--	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate	mg/kg	0.02	SL-9	< 0.0499 U	**0.0811**	--	< 0.4 U	--	--	--	--	--
Carbazole	mg/kg	79	SL-9	< 0.02 U	< 0.0199 U	--	< 0.025 U	--	--	--	--	--
Dibenzofuran	mg/kg	0.54	SL-8	< 0.005 U	< 0.0249 U	--	< 0.025 U	--	< 0.00498 U	< 0.005 U	< 0.00497 U	< 0.005 U
Diethyl phthalate	mg/kg	0.2	SL-8	< 0.02 U	**0.982**	--	< 0.25 U	--	--	--	--	--
Dimethyl phthalate	mg/kg	0.071	SL-8	< 0.02 U	**0.0178 J**	--	< 0.25 U	--	--	--	--	--
Di-n-butyl phthalate	mg/kg	0.011	SL-9	< 0.02 U	**0.0066 J**	--	< 0.25 U	--	--	--	--	--
Di-n-octyl phthalate	mg/kg	0.91	SL-9	< 0.02 U	< 0.0199 U	--	< 0.25 U	--	--	--	--	--
Hexachlorobenzene	mg/kg	8.00E-06	SL-3	< 0.02 U	< 0.0199 U	--	< 0.025 U	--	--	--	--	--
Hexachlorobutadiene	mg/kg	0.00021	SL-3	< 0.00517 U	< 0.00552 U	--	< 0.01 U	--	< 0.00474 U	< 0.00466 U	< 0.00652 U	< 0.00675 U
Hexachlorocyclopentadiene	mg/kg	0.032	SL-3	< 0.0999 UJ	< 0.0997 UJ	--	< 0.075 U	--	--	--	--	--
Hexachloroethane	mg/kg	0.00016	SL-3	< 0.02 U	< 0.0199 U	--	< 0.025 U	--	--	--	--	--
Isophorone	mg/kg	0.58	SL-3	< 0.02 U	< 0.0199 U	--	< 0.025 U	--	--	--	--	--
Nitrobenzene	mg/kg	0.64	SL-3	< 0.02 U	< 0.0199 U	--	< 0.025 U	--	--	--	--	--
N-Nitrosodimethylamine	mg/kg	0.0015	SL-3	--	--	--	< 0.025 U	--	--	--	--	--
N-Nitroso-di-n-propylamine	mg/kg	0.00055	SL-3	< 0.02 U	< 0.0199 U	--	< 0.025 U	--	--	--	--	--
N-Nitrosodiphenylamine	mg/kg	0.028	SL-8	< 0.02 U	< 0.0199 U	--	< 0.025 UJ	--	--	--	--	--
Pentachlorophenol	mg/kg	3.20E-05	SL-3	< 0.0999 UJ	< 0.0997 UJ	--	< 0.12 U	--	--	--	--	--
Phenol	mg/kg	0.42	SL-8	< 0.02 U	< 0.0199 U	--	< 0.25 U	--	--	--	--	--
Pyridine	mg/kg	80	SL-1	--	--	--	--	--	--	--	--	--

Table I.3.B. Vadose Soil Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL

Location				MW-10	MW-11		MW-11D		MW-12		MW-13	
Date				03/08/21	03/08/21	03/08/21	09/15/22	09/15/22	03/03/21	03/03/21	03/01/21	03/01/21
Sample				MW-10-0-1	MW-11-0-1	MW-11-3-5	MW-11D-0-1	MW-11D-5-6	MW-12-0-1	MW-12-3-5	MW-13-0-1	MW-13-3-5
Depth				0 - 1 ft	0 - 1 ft	3 - 5 ft	0 - 1 ft	5 - 6 ft	0 - 1 ft	3 - 5 ft	0 - 1 ft	3 - 5 ft
Geologic Unit				Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill
Analyte	Unit	Prelmiinary RI SL	Basis of SL									
Pesticides												
2,4'-DDD	mg/kg			--	--	--	--	--	--	--	--	--
2,4'-DDE	mg/kg			--	--	--	--	--	--	--	--	--
2,4'-DDT	mg/kg			--	--	--	--	--	--	--	--	--
4,4'-DDD	mg/kg	7.30E-06	SL-3	--	--	--	< 0.01 U	--	--	--	--	--
4,4'-DDE	mg/kg	1.50E-06	SL-3	--	--	--	< 0.01 U	--	--	--	--	--
4,4'-DDT	mg/kg	1.60E-05	SL-3	--	--	--	< 0.01 U	--	--	--	--	--
Aldrin	mg/kg	4.00E-08	SL-3	--	--	--	< 0.017 U	--	--	--	--	--
Alpha-BHC	mg/kg	1.90E-06	SL-3	--	--	--	< 0.005 U	--	--	--	--	--
Beta-BHC	mg/kg	6.60E-05	SL-3	--	--	--	< 0.005 U	--	--	--	--	--
Chlordane	mg/kg	2.30E-05	SL-3	--	--	--	--	--	--	--	--	--
cis-Chlordane	mg/kg	0.0001	SL-8	--	--	--	< 0.005 U	--	--	--	--	--
cis-Nonachlor	mg/kg			--	--	--	--	--	--	--	--	--
Delta-BHC	mg/kg	0.0048	SL-1	--	--	--	< 0.005 U	--	--	--	--	--
Dieldrin	mg/kg	3.60E-08	SL-3	--	--	--	< 0.01 U	--	--	--	--	--
Endosulfan I	mg/kg	0.0012	SL-3	--	--	--	< 0.005 U	--	--	--	--	--
Endosulfan II	mg/kg	0.0012	SL-3	--	--	--	< 0.01 U	--	--	--	--	--
Endosulfan Sulfate	mg/kg	2	SL-3	--	--	--	< 0.01 U	--	--	--	--	--
Endrin	mg/kg	0.00044	SL-3	--	--	--	< 0.01 U	--	--	--	--	--
Endrin Aldehyde	mg/kg	0.0024	SL-3	--	--	--	< 0.01 U	--	--	--	--	--
Endrin ketone	mg/kg			--	--	--	< 0.01 U	--	--	--	--	--
Heptachlor	mg/kg	6.60E-08	SL-3	--	--	--	< 0.005 U	--	--	--	--	--
Heptachlor Epoxide	mg/kg	4.90E-07	SL-3	--	--	--	< 0.005 U	--	--	--	--	--
Lindane	mg/kg	0.0039	SL-3	--	--	--	< 0.005 U	--	--	--	--	--
Methoxychlor	mg/kg	0.032	SL-3	--	--	--	< 0.05 U	--	--	--	--	--
Mirex	mg/kg	0.0071	SL-3	--	--	--	--	--	--	--	--	--
Oxychlordane	mg/kg			--	--	--	--	--	--	--	--	--
Toxaphene	mg/kg	6.10E-05	SL-3	--	--	--	< 0.25 U	--	--	--	--	--
trans-Chlordane	mg/kg	0.0001	SL-8	--	--	--	< 0.017 U	--	--	--	--	--
trans-Nonachlor	mg/kg			--	--	--	--	--	--	--	--	--
Total Petroleum Hydrocarbons (TPH)												
Gasoline Range Organics	mg/kg	30	SL-3	< 6.31 U	**31.9**	--	**2.3 J**	--	< 5.71 U	< 5.26 U	R	< 8.91 U
Diesel Range Organics	mg/kg	2000	SL-9	< 56.9 U	< 54.1 U	--	**9.9 J**	--	< 54.6 U	< 58.8 U	< 54.3 U	< 53.8 U
Motor Oil Range Organics	mg/kg	2000	SL-9	< 114 U	**462**	--	**160**	--	< 109 U	**145**	< 109 U	< 108 U
Diesel and Oil Extended Range Organics	mg/kg	2000	SL-9	< 114 U	**462**	--	**170 J**	--	< 109 U	**145**	< 109 U	< 108 U
Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)												
Benzene	mg/kg	0.0088	SL-3	**0.00067 J**	< 0.0011 U	--	< 0.001 U	--	**0.00056 J**	**0.00062 J**	< 0.0013 U	< 0.00135 U
Toluene	mg/kg	0.72	SL-3	< 0.00103 U	< 0.0011 U	--	< 0.002 U	--	**0.00034 J**	**0.00062 J**	< 0.0013 U	**0.00048 J**
Ethylbenzene	mg/kg	0.18	SL-3	< 0.00103 U	< 0.0011 U	--	< 0.001 U	--	< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U
Total Xylenes	mg/kg	0.94	SL-3	< 0.00207 U	< 0.00221 U	--	< 0.002 U	--	< 0.0019 U	< 0.00186 U	< 0.00261 U	< 0.0027 U
Volatile Organic Compounds (VOCs)												
1,1,1,2-Tetrachloroethane	mg/kg	38	SL-1	< 0.00103 U	< 0.0011 U	--	< 0.05 U	--	< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U
1,1,1-Trichloroethane	mg/kg	370	SL-3	< 0.00103 U	< 0.0011 U	--	< 0.002 U	--	< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U
1,1,2 - Trichlorotrifluoroethane	mg/kg	2400000	SL-1	< 0.00207 U	< 0.00221 U	--	--	--	< 0.0019 U	< 0.00186 U	< 0.00261 U	< 0.0027 U
1,1,2,2-Tetrachloroethane	mg/kg	0.0017	SL-3	< 0.00103 U	< 0.0011 U	--	< 0.05 U	--	< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U
1,1,2-Trichloroethane	mg/kg	0.005	SL-3	< 0.00103 U	< 0.0011 U	--	< 0.005 U	--	< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U
1,1-Dichloroethane	mg/kg	180	SL-1	< 0.00103 U	< 0.0011 U	--	< 0.002 U	--	< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U
1,1-Dichloroethene	mg/kg	11	SL-9	< 0.00103 U	< 0.0011 U	--	< 0.001 U	--	< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U
1,1-Dichloropropene	mg/kg			< 0.00103 U	< 0.0011 U	--	< 0.05 U	--	< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U
1,2,3-Trichlorobenzene	mg/kg	64	SL-1	< 0.00517 U	< 0.00552 U	--	< 0.25 U	--	< 0.00474 U	< 0.00466 U	< 0.00652 U	< 0.00675 U
1,2,3-Trichloropropane	mg/kg	0.0063	SL-1	< 0.00207 U	< 0.00221 U	--	< 0.05 U	--	< 0.0019 U	< 0.00186 U	< 0.00261 U	< 0.0027 U
1,2,4-Trichlorobenzene	mg/kg	0.0014	SL-3	< 0.00517 U	< 0.00552 U	--	< 0.01 U	--	< 0.00474 U	< 0.00466 U	< 0.00652 U	< 0.00675 U
1,2,4-Trimethylbenzene	mg/kg	800	SL-1	< 0.00103 U	< 0.0011 U	--	< 0.05 U	--	< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U
1,2-Dibromo-3-chloropropane	mg/kg	0.23	SL-1	< 0.00517 U	< 0.00552 U	--	< 0.5 U	--	< 0.00474 U	< 0.00466 U	< 0.00652 U	< 0.00675 U
1,2-Dibromoethane (EDB)	mg/kg	0.5	SL-1	< 0.00103 U	< 0.0011 U	--	< 0.005 U	--	< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U
1,2-Dichlorobenzene	mg/kg	0.035	SL-8	< 0.00103 U	< 0.0011 U	--	< 0.05 U	--	< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U
1,2-Dichloroethane (EDC)	mg/kg	0.35	SL-3	< 0.00103 U	< 0.0011 U	--	< 0.002 U	--	< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U
1,2-Dichloropropane	mg/kg	0.016	SL-3	< 0.00103 U	< 0.0011 U	--	< 0.05 U	--	< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U
1,3,5-Trimethylbenzene	mg/kg	800	SL-1	< 0.00103 U	< 0.0011 U	--	< 0.05 U	--	< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U
1,3-Dichlorobenzene	mg/kg	0.023	SL-3	< 0.00103 U	< 0.0011 U	--	< 0.05 U	--	< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U
1,3-Dichloropropane	mg/kg	0.0066	SL-3	< 0.00103 U	< 0.0011 U	--	< 0.05 U	--	< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U
1,4-Dichloro-2-Butene	mg/kg			< 0.00517 U	< 0.00552 U	--	--	--	< 0.00474 U	< 0.00466 U	< 0.00652 U	< 0.00675 U
1,4-Dichlorobenzene	mg/kg	0.11	SL-8	< 0.00103 U	< 0.0011 U	--	< 0.05 U	--	< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U
2,2-Dichloropropane	mg/kg			< 0.00103 U	< 0.0011 U	--	< 0.05 U	--	< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U
2-Butanone	mg/kg	350	SL-9	< 0.00517 U	**0.0118**	--	< 1 U	--	**0.0035 J**	**0.00498**	< 0.00652 U	< 0.00675 U
2-Chloroethyl Vinyl Ether	mg/kg			< 0.00517 U	< 0.00552 U	--	--	--	< 0.00474 U	< 0.00466 U	< 0.00652 UJ	< 0.00675 UJ
2-Chlorotoluene	mg/kg	1600	SL-1	< 0.00103 U	< 0.0011 U	--	< 0.05 U	--	< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U
2-Hexanone	mg/kg	400	SL-1	< 0.00517 U	< 0.00552 U	--	< 0.5 U	--	< 0.00474 U	< 0.00466 U	< 0.00652 U	< 0.00675 U
2-Pentanone	mg/kg			< 0.00517 U	< 0.00552 U	--	--	--	< 0.00474 U	< 0.00466 U	< 0.00652 UJ	< 0.00675 UJ
4-Chlorotoluene	mg/kg	1600	SL-1	< 0.00103 U	< 0.0011 U	--	< 0.05 U	--	< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U
4-Methyl-2-pentanone	mg/kg	6400	SL-1	< 0.00517 U	< 0.00552 U	--	< 1 U	--	< 0.00474 U	< 0.00466 U	< 0.00652 U	< 0.00675 U
Acetone	mg/kg	1.2	SL-9	**0.0703**	**0.211**	--	< 5 U	--	**0.0683**	**0.0771 J**	**0.144 J**	**0.0682 J**
Acrolein	mg/kg	0.0044	SL-3	< 0.00517 U	< 0.00552 U	--	--	--	< 0.00474 U	< 0.00466 U	< 0.00652 U	< 0.00675 U
Acrylonitrile	mg/kg	0.00012	SL-3	< 0.00517 U	< 0.00552 U	--	--	--	< 0.00474 U	< 0.00466 U	< 0.00652 U	< 0.00675 U
Bromobenzene	mg/kg	640	SL-1	< 0.00103 U	< 0.0011 U	--	< 0.05 U	--	< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U
Bromochloromethane	mg/kg			< 0.00103 U	< 0.0011 U	--	--	--	< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U
Bromodichloromethane	mg/kg	0.013	SL-3	< 0.00103 U	< 0.0011 U	--	< 0.005 U	--	< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U
Bromoform	mg/kg	0.078	SL-3	< 0.00103 U	< 0.0011 U	--	< 0.05 U	--	< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U
Bromomethane	mg/kg	0.24	SL-9	< 0.00103 U	< 0.0011 U	--	< 0.1 U	--	**0.00323**	< 0.00093 U	< 0.0013 U	< 0.00135 U
Carbon Disulfide	mg/kg	0.81	SL-9	< 0.00103 U	< 0.0011 U	--	--	--	**0.0129**	< 0.00093 U	< 0.0013 U	< 0.00135 U
Carbon Tetrachloride	mg/kg	0.0029	SL-3	< 0.00103 U	< 0.0011 U	--	< 0.005 U	--	< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U
Chlorobenzene	mg/kg	1.7	SL-3	< 0.00103 U	< 0.0011 U	--	< 0.05 U	--	< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U
Chloroethane	mg/kg			< 0.00207 U	< 0.00221 U	--	< 0.1 U	--	< 0.0019 U	< 0.00186 U	< 0.00261 U	< 0.0027 U
Chloroform	mg/kg	0.81	SL-3	< 0.00103 U	< 0.0011 U	--	< 0.05 U	--	< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U
Chloromethane	mg/kg			< 0.00103 U	< 0.0011 U	--	< 0.5 U	--	< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U
cis-1,2-Dichloroethene (DCE)	mg/kg	24	SL-9	< 0.00103 U	< 0.0011 U	--	< 0.001 U	--	< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U
cis-1,3-Dichloropropene	mg/kg	0.0056	SL-3	< 0.00103 U	< 0.0011 U	--	< 0.01 U	--	< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U
Dibromochloromethane	mg/kg	0.01	SL-3	< 0.00103 U	< 0.0011 U	--	< 0.01 U	--	< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U
Dibromomethane	mg/kg	800	SL-1	< 0.00103 U	< 0.0011 U	--	< 0.05 U	--	< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U
Dichlorodifluoromethane	mg/kg	16000	SL-1	< 0.00103 U	< 0.0011 U	--	< 0.5 U	--	< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U
Isopropylbenzene	mg/kg	8000	SL-1	< 0.00103 U	< 0.0011 U	--	< 0.05 U	--	< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U
m,p-Xylenes	mg/kg			< 0.00207 U	< 0.00221 U	--	< 0.002 U	--	< 0.0019 U	< 0.00186 U	< 0.00261 U	< 0.0027 U
Methyl tert-butyl ether (MTBE)	mg/kg	560	SL-1	< 0.00103 U	< 0.0011 U	--	< 0.001 U	--	< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U
Methylene Chloride	mg/kg	0.43	SL-3	< 0.00517 U	< 0.00552 U	--	< 0.2 U	--	< 0.00474 U	< 0.00466 U	**0.00789**	**0.14 J**
Methyliodide	mg/kg			< 0.00103 U	< 0.0011 U	--	--	--	< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U
n-Butylbenzene	mg/kg	4000	SL-1	< 0.00103 U	< 0.0011 U	--	--	--	< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U
n-Hexane	mg/kg	4800	SL-1	--	--	--	< 0.25 U	--	--	--	--	--
n-Propylbenzene	mg/kg	8000	SL-1	< 0.00103 U	< 0.0011 U	--	< 0.05 U	--	< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U
o-Xylene	mg/kg			< 0.00103 U	< 0.0011 U	--	< 0.001 U	--	< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U
p-Isopropyltoluene	mg/kg	320	SL-1	< 0.00103 U	< 0.0011 U	--	< 0.05 U	--	< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U
sec-Butylbenzene	mg/kg	8000	SL-1	< 0.00103 U	< 0.0011 U	--	< 0.05 U	--	< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U
Styrene	mg/kg	4.7	SL-9	< 0.00103 U	< 0.0011 U	--	< 0.05 U	--	< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U
tert-Butylbenzene	mg/kg	8000	SL-1	< 0.00103 U	< 0.0011 U	--	< 0.05 U	--	< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U
Tetrachloroethene (PCE)	mg/kg	0.029	SL-3	< 0.00103 U	< 0.0011 U	--	< 0.001 U	--	< 0.00095 U	< 0.00093 U	**0.878**	**0.252 J**
trans-1,2-Dichloroethene	mg/kg	0.78	SL-3	< 0.00103 U	< 0.0011 U	--	< 0.002 U	--	< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U
trans-1,3-Dichloropropene	mg/kg	0.0056	SL-3	< 0.00103 U	< 0.0011 U	--	< 0.01 U	--	< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U
Trichloroethene (TCE)	mg/kg	0.0044	SL-3	< 0.00103 U	< 0.0011 U	--	< 0.001 U	--	< 0.00095 U	< 0.00093 U	**0.00471**	**0.00273**
Trichlorofluoromethane	mg/kg	24000	SL-1	< 0.00207 U	< 0.00221 U	--	< 0.5 U	--	< 0.0019 U	< 0.00186 U	< 0.00261 U	< 0.0027 U
Vinyl Acetate	mg/kg	80000	SL-1	< 0.00517 U	< 0.00552 U	--	--	--	< 0.00474 U	< 0.00466 U	< 0.00652 U	< 0.00675 U
Vinyl Chloride	mg/kg	0.0011	SL-3	< 0.00103 U	< 0.0011 U	--	< 0.001 U	--	< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U
Conventionals												
Total Organic Carbon	%			**0.24**	**1.23**	--	--	--	**0.19**	**0.71**	< 0.02 U	< 0.02 U
Total Solids	%			**87.7**	**92.3**	--	--	--	**91.3**	**80.1**	**92.1**	**92.9**

Table I.3.B. Vadose Soil Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL

Location				MW-13D			MW-14		MW-15		MW-16	
Date				09/23/22	09/23/22	09/23/22	03/10/21	03/01/21	03/03/21	03/03/21	09/23/22	09/23/22
Sample				MW-13D-0-1	MW-13D-0-1-TIG	MW-13D-4-5	MW-14A-0-1	MW-14-4.5-5	MW-15-0-1	MW-15-3-5	MW-16-0-1	MW-16-1.5-2
Depth				0 - 1 ft	0 - 1 ft	4 - 5 ft	0 - 1 ft	4.5 - 5 ft	0 - 1 ft	3 - 5 ft	0 - 1 ft	1.5 - 2 ft
Geologic Unit				Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill
Analyte	Unit	Prelmiinary RI SL	Basis of SL									
Metals, Total												
Arsenic	mg/kg	7.3	SL-10	--	--	--	**27.4 J**	**2.14 J**	**3.24**	**1.47**	**4.82**	**3.95**
Barium	mg/kg	250	SL-10	--	--	--	--	--	--	--	--	--
Cadmium	mg/kg	0.77	SL-10	--	--	--	**0.3**	**0.11**	**0.2**	< 0.1 U	**10.6**	**5.59**
Chromium	mg/kg	67	SL-9	--	--	--	**34.3**	**9.81**	**8.27**	**7.75**	**162**	**186**
Copper	mg/kg	36	SL-10	--	--	--	**292**	**14 J**	**20**	**8.39**	**95.6**	**56.3**
Lead	mg/kg	120	SL-9	--	--	--	**42 J**	**29.5 J**	**24.2 J**	**1.18 J**	**1260**	**1740**
Mercury	mg/kg	0.07	SL-10	--	--	--	**0.187 J**	**0.0142 J**	**0.0183 J**	**0.00523 J**	**11**	**1.9**
Nickel	mg/kg	48	SL-10	--	--	--	**52 J**	**8.34**	**8.07**	**6.63**	**44.4**	**22.3**
Selenium	mg/kg	0.78	SL-10	--	--	--	--	--	--	--	--	--
Silver	mg/kg	0.61	SL-10	--	--	--	--	--	--	--	--	--
Zinc	mg/kg	100	SL-3	--	--	--	**145**	**44**	**93.1**	**17.9**	**936**	**1010**
Butyl Tins												
Dibutyltin Ion	mg/kg			--	--	--	**0.0275**	< 0.00578 U	< 0.00578 U	< 0.00577 U	**0.0235**	**0.0215**
Monobutyltin	mg/kg			--	--	--	**0.016**	< 0.00408 U	< 0.00408 U	< 0.00407 U	**0.026 J**	**0.00513**
Tetrabutyltin	mg/kg			--	--	--	< 0.00495 U	< 0.005 U	< 0.005 U	< 0.00499 U	< 0.005 U	< 0.005 U
Tributyltin Ion	mg/kg	0.0021	SL-8	--	--	--	**0.0136**	< 0.00386 U	< 0.00386 U	< 0.00385 U	**0.000807**	< 0.00386 U
Polychlorinated Biphenyl (PCB) Aroclors												
Total PCB Aroclors (ND = 0)	mg/kg	1.10E-05	SL-3	--	--	--	**0.0515**	**0.0066 J**	**0.123**	< 0.004 U	**36**	**36.1**
Polychlorinated Biphenyl (PCB) Congeners												
Total PCB Congeners (ND = 0)	mg/kg	1.10E-05	SL-3	--	--	--	--	--	--	--	--	--
Total PCB TEQ (ND = 0)	mg/kg	6.90E-09	SL-3	--	--	--	--	--	--	--	--	--
Dioxins/Furans												
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	5.20E-06	SL-10	--	**1.30E-05 J**	--	--	--	--	--	--	**6.37E-03 J**
2,3,7,8-TCDD	mg/kg	5.20E-06	SL-10	--	< 4.91E-07 U	--	--	--	--	--	--	**4.38E-05**
Polycyclic Aromatic Hydrocarbons (PAHs)												
1-Methylnaphthalene	mg/kg	20	SL-1	--	--	--	**0.00459 J**	< 0.00499 U	< 0.00499 U	< 0.00497 U	**0.08**	**0.58**
2-Methylnaphthalene	mg/kg	0.67	SL-8	--	--	--	< 0.00498 U	< 0.00499 U	< 0.00499 U	< 0.00497 U	**0.1**	**0.56**
Acenaphthene	mg/kg	0.5	SL-8	--	--	--	**0.00433 J**	< 0.00499 U	**0.00071 J**	**0.001 J**	< 0.05 U	< 0.05 U
Acenaphthylene	mg/kg	1.3	SL-8	--	--	--	**0.00239 J**	< 0.00499 U	**0.00168 J**	< 0.00497 U	< 0.05 U	< 0.05 U
Anthracene	mg/kg	0.96	SL-8	--	--	--	**0.00827**	< 0.00499 U	**0.00182 J**	< 0.00497 U	< 0.05 U	< 0.05 U
Benzo(g,h,i)perylene	mg/kg	0.67	SL-8	--	--	--	**0.027**	**0.00296 J**	**0.0146**	< 0.00497 U	**0.06**	**0.052**
Fluoranthene	mg/kg	1.7	SL-8	--	--	--	**0.061**	**0.00237 J**	**0.0181**	< 0.00497 U	**0.054**	**0.07**
Fluorene	mg/kg	0.54	SL-8	--	--	--	**0.00521**	< 0.00499 U	< 0.00499 U	< 0.00497 U	< 0.05 U	< 0.05 U
Naphthalene	mg/kg	0.039	SL-3	--	--	--	**0.00307 J**	< 0.00499 U	< 0.00769 U	< 0.011 U	< 0.005 UJ	**0.087 J**
Phenanthrene	mg/kg	1.5	SL-8	--	--	--	**0.0394**	**0.00203 J**	**0.00793**	< 0.00497 U	**0.1**	**0.56**
Pyrene	mg/kg	2.6	SL-8	--	--	--	**0.0533**	**0.0029 J**	**0.0177**	< 0.00497 U	**0.12**	**0.34**
Benz(a)anthracene	mg/kg	0.73	SL-9	--	--	--	**0.0277**	**0.00141 J**	**0.00895**	< 0.00497 U	< 0.05 U	< 0.05 U
Benzo(a)pyrene	mg/kg	0.00031	SL-3	--	--	--	**0.0307**	**0.00189 J**	**0.0134**	< 0.00497 U	**0.04 J**	**0.031 J**
Benzo(b)fluoranthene	mg/kg	44	SL-9	--	--	--	**0.0305**	**0.00213 J**	**0.0158**	< 0.00497 U	**0.08**	**0.055**
Benzo(j)fluoranthene	mg/kg			--	--	--	**0.0182**	**0.00166 J**	**0.00812**	< 0.00497 U	--	--
Benzo(j,k)fluoranthene	mg/kg			--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	mg/kg	71	SL-9	--	--	--	**0.0178**	**0.00126 J**	**0.00766**	< 0.00497 U	< 0.05 U	< 0.05 U
Chrysene	mg/kg	1.4	SL-8	--	--	--	**0.0413**	**0.00198 J**	**0.0136**	< 0.00497 U	**0.088**	**0.11**
Dibenzo(a,h)anthracene	mg/kg	0.23	SL-8	--	--	--	**0.00565**	**0.00149 J**	**0.00322 J**	< 0.00497 U	< 0.05 U	< 0.05 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.6	SL-8	--	--	--	**0.0211**	**0.00237 J**	**0.0125**	< 0.00497 U	**0.051**	< 0.05 U
Total Benzofluoranthenes	mg/kg	1.1	SL-9	--	--	--	**0.0687**	**0.00511 J**	**0.0309**	< 0.00993 U	**0.105**	**0.08**
Total HPAHs (ND = 1/2 RDL)	mg/kg	1.1	SL-9	--	--	--	**0.334**	**0.0224 J**	**0.134 J**	< 0.00497 U	**0.568 J**	**0.758 J**
Total LPAHs (ND = 1/2 RDL)	mg/kg	5.2	SL-8	--	--	--	**0.0627 J**	**0.0145 J**	**0.0184 J**	**0.0164 J**	**0.202 J**	**0.747 J**
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	0.00031	SL-3	--	--	--	**0.0414**	**0.00278 J**	**0.0183 J**	< 0.00375 U	**0.0615 J**	**0.0476 J**
Semivolatile Organic Compounds (SVOCs)												
1,2-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	mg/kg	0.00068	SL-3	--	--	--	--	--	--	--	< 0.25 U	< 0.25 U
1,3-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--
1,4-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	mg/kg	2400	SL-1	--	--	--	--	--	--	--	--	--
2,3,5,6-Tetrachlorophenol	mg/kg			--	--	--	--	--	--	--	--	--
2,3-Dichloroaniline	mg/kg			--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	mg/kg	22	SL-3	--	--	--	< 0.0997 U	< 0.0997 U	< 0.0994 U	< 0.0996 U	< 2.5 U	< 2.5 U
2,4,6-Trichlorophenol	mg/kg	0.0033	SL-3	--	--	--	< 0.0997 U	< 0.0997 U	< 0.0994 U	< 0.0996 U	< 2.5 U	< 2.5 U
2,4-Dichlorophenol	mg/kg	0.069	SL-3	--	--	--	< 0.0997 U	< 0.0997 U	< 0.0994 U	< 0.0996 U	< 2.5 U	< 2.5 U
2,4-Dimethylphenol	mg/kg	0.029	SL-8	--	--	--	< 0.0997 U	< 0.0997 U	< 0.0994 U	< 0.0996 U	< 2.5 U	< 2.5 U
2,4-Dinitrophenol	mg/kg	0.061	SL-9	--	--	--	< 0.199 UJ	< 0.199 UJ	< 0.199 UJ	< 0.199 UJ	< 7.5 U	< 7.5 U
2,4-Dinitrotoluene	mg/kg	0.0028	SL-3	--	--	--	< 0.0997 U	< 0.0997 U	< 0.0994 U	< 0.0996 U	< 1.2 U	< 1.2 U
2,6-Dinitrotoluene	mg/kg	0.67	SL-1	--	--	--	< 0.0997 U	< 0.0997 U	< 0.0994 U	< 0.0996 U	< 1.2 U	< 1.2 U
2-Chloronaphthalene	mg/kg	5.4	SL-3	--	--	--	< 0.0199 U	< 0.0199 U	< 0.0199 U	< 0.0199 U	< 0.25 U	< 0.25 U
2-Chlorophenol	mg/kg	0.2	SL-3	--	--	--	< 0.0199 U	< 0.0199 U	< 0.0199 U	< 0.0199 U	< 2.5 UJ	< 2.5 U
2-Methylphenol	mg/kg	0.063	SL-8	--	--	--	< 0.0199 U	< 0.0199 U	< 0.0199 U	< 0.0199 U	< 2.5 U	< 2.5 U
2-Nitroaniline	mg/kg	800	SL-1	--	--	--	< 0.0997 U	< 0.0997 U	< 0.0994 U	< 0.0996 U	< 1.2 U	< 1.2 U
2-Nitrophenol	mg/kg			--	--	--	< 0.0199 U	< 0.0199 U	< 0.0199 U	< 0.0199 U	< 2.5 UJ	< 2.5 U
3 & 4 Methylphenol	mg/kg			--	--	--	--	--	--	--	< 5 U	< 5 U
3,3'-Dichlorobenzidine	mg/kg	2.20E-04	SL-3	--	--	--	< 0.0997 U	< 0.0997 U	< 0.0994 U	< 0.0996 U	< 2.5 U	< 2.5 U
3-Nitroaniline	mg/kg			--	--	--	< 0.0997 U	< 0.0997 U	< 0.0994 U	< 0.0996 U	< 25 U	< 25 U
4,6-Dinitro-2-methylphenol	mg/kg	0.13	SL-3	--	--	--	< 0.199 U	< 0.199 U	< 0.199 U	< 0.199 U	< 7.5 U	< 7.5 U
4-Bromophenyl phenyl ether	mg/kg			--	--	--	< 0.0199 U	< 0.0199 U	< 0.0199 U	< 0.0199 U	< 0.25 U	< 0.25 U
4-Chloro-3-methylphenol	mg/kg	0.5	SL-3	--	--	--	< 0.0997 U	< 0.0997 U	< 0.0994 U	< 0.0996 U	< 2.5 U	< 2.5 U
4-Chloroaniline	mg/kg	5	SL-1	--	--	--	< 0.0997 U	< 0.0997 U	< 0.0994 U	< 0.0996 U	< 25 UJ	< 25 U
4-Chlorophenyl phenyl ether	mg/kg			--	--	--	< 0.0199 U	< 0.0199 UJ	< 0.0199 U	< 0.0199 U	< 0.25 U	< 0.25 U
4-Methylphenol	mg/kg	0.67	SL-8	--	--	--	< 0.0199 U	< 0.0199 UJ	< 0.0199 U	< 0.0199 U	< 5 U	< 5 U
4-Nitroaniline	mg/kg	22	SL-9	--	--	--	< 0.0997 U	< 0.0997 U	< 0.0994 U	< 0.0996 U	< 25 U	< 25 U
4-Nitrophenol	mg/kg			--	--	--	< 0.0997 U	< 0.0997 UJ	< 0.0994 U	< 0.0996 U	< 7.5 U	< 7.5 U
Aniline	mg/kg	180	SL-1	--	--	--	--	--	--	--	--	--
Benzoic acid	mg/kg	0.65	SL-8	--	--	--	< 0.199 UJ	< 0.199 U	< 0.199 U	< 0.199 U	< 12 U	< 12 U
Benzyl alcohol	mg/kg	0.057	SL-8	--	--	--	**0.138**	< 0.0199 UJ	< 0.0199 U	< 0.0199 U	< 2.5 U	< 2.5 U
Benzyl butyl phthalate	mg/kg	0.0036	SL-3	--	--	--	< 0.0199 U	< 0.0199 U	< 0.0199 U	< 0.0199 U	< 2.5 U	< 2.5 U
Bis(2-chloro-1-methylethyl) ether	mg/kg	0.59	SL-3	--	--	--	< 0.0199 U	< 0.0199 U	< 0.0199 U	< 0.0199 U	< 0.25 UJ	< 0.25 U
Bis(2-chloroethoxy)methane	mg/kg	240	SL-1	--	--	--	< 0.0199 U	< 0.0199 U	< 0.0199 U	< 0.0199 U	< 0.25 U	< 0.25 U
Bis(2-chloroethyl) ether	mg/kg	0.00033	SL-3	--	--	--	< 0.0199 U	< 0.0199 U	< 0.0199 U	< 0.0199 U	< 0.25 UJ	< 0.25 U
bis(2-Chloroisopropyl)ether	mg/kg			--	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) adipate	mg/kg	830	SL-1	--	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate	mg/kg	0.02	SL-9	--	--	--	**0.0521**	< 0.0499 U	< 0.0497 U	< 0.0498 U	< 4 U	< 4 U
Carbazole	mg/kg	79	SL-9	--	--	--	**0.0091 J**	< 0.0199 U	< 0.0199 U	< 0.0199 U	< 0.25 U	< 0.25 UJ
Dibenzofuran	mg/kg	0.54	SL-8	--	--	--	**0.00298 J**	< 0.00499 U	< 0.00499 U	< 0.00497 U	< 0.25 U	< 0.25 U
Diethyl phthalate	mg/kg	0.2	SL-8	--	--	--	< 0.0199 U	< 0.0199 U	< 0.0199 U	< 0.0199 U	< 2.5 U	< 2.5 U
Dimethyl phthalate	mg/kg	0.071	SL-8	--	--	--	**0.271**	< 0.0199 U	< 0.0199 U	< 0.0199 U	< 2.5 U	< 2.5 U
Di-n-butyl phthalate	mg/kg	0.011	SL-9	--	--	--	**0.0055 J**	< 0.0199 U	**0.223**	< 0.0199 U	< 2.5 U	**3.6**
Di-n-octyl phthalate	mg/kg	0.91	SL-9	--	--	--	< 0.0199 U	< 0.0199 U	< 0.0199 U	< 0.0199 U	< 2.5 U	< 2.5 U
Hexachlorobenzene	mg/kg	8.00E-06	SL-3	--	--	--	< 0.0199 U	< 0.0199 U	< 0.0005 U	< 0.0005 U	< 0.25 U	< 0.25 U
Hexachlorobutadiene	mg/kg	0.00021	SL-3	--	--	--	< 0.00465 U	< 0.00732 U	< 0.0005 U	< 0.0005 U	< 0.01 UJ	< 0.01 UJ
Hexachlorocyclopentadiene	mg/kg	0.032	SL-3	--	--	--	< 0.0997 UJ	< 0.0997 UJ	< 0.0994 UJ	< 0.0996 UJ	< 0.75 U	< 0.75 U
Hexachloroethane	mg/kg	0.00016	SL-3	--	--	--	< 0.0199 U	< 0.0199 U	< 0.0199 U	< 0.0199 U	< 0.25 UJ	< 0.25 U
Isophorone	mg/kg	0.58	SL-3	--	--	--	< 0.0199 U	< 0.0199 UJ	< 0.0199 U	< 0.0199 U	< 0.25 U	< 0.25 U
Nitrobenzene	mg/kg	0.64	SL-3	--	--	--	< 0.0199 U	< 0.0199 U	< 0.0199 U	< 0.0199 U	< 0.25 U	< 0.25 U
N-Nitrosodimethylamine	mg/kg	0.0015	SL-3	--	--	--	--	--	--	--	< 0.25 UJ	< 0.25 U
N-Nitroso-di-n-propylamine	mg/kg	0.00055	SL-3	--	--	--	< 0.0199 U	< 0.0199 U	< 0.0199 U	< 0.0199 U	< 0.25 U	< 0.25 U
N-Nitrosodiphenylamine	mg/kg	0.028	SL-8	--	--	--	< 0.0199 U	< 0.0199 U	< 0.0199 U	< 0.0199 U	< 0.25 U	< 0.25 U
Pentachlorophenol	mg/kg	3.20E-05	SL-3	--	--	--	< 0.0997 UJ	< 0.0997 UJ	< 0.0994 U	< 0.0996 U	**2.9**	**14**
Phenol	mg/kg	0.42	SL-8	--	--	--	< 0.0199 U	< 0.0199 U	< 0.0199 U	< 0.0199 U	< 2.5 UJ	< 2.5 U
Pyridine	mg/kg	80	SL-1	--	--	--	--	--	--	--	--	--

Table I.3.B. Vadose Soil Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL

Location				MW-13D			MW-14		MW-15		MW-16	
Date				09/23/22	09/23/22	09/23/22	03/10/21	03/01/21	03/03/21	03/03/21	09/23/22	09/23/22
Sample				MW-13D-0-1	MW-13D-0-1-TIG	MW-13D-4-5	MW-14A-0-1	MW-14-4.5-5	MW-15-0-1	MW-15-3-5	MW-16-0-1	MW-16-1.5-2
Depth				0 - 1 ft	0 - 1 ft	4 - 5 ft	0 - 1 ft	4.5 - 5 ft	0 - 1 ft	3 - 5 ft	0 - 1 ft	1.5 - 2 ft
Geologic Unit				Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill
Analyte	Unit	Prelmiinary RI SL	Basis of SL									
Pesticides												
2,4'-DDD	mg/kg			--	--	--	--	--	< 0.001 U	< 0.001 U	--	--
2,4'-DDE	mg/kg			--	--	--	--	--	< 0.001 U	< 0.001 U	--	--
2,4'-DDT	mg/kg			--	--	--	--	--	< 0.001 U	< 0.001 U	--	--
4,4'-DDD	mg/kg	7.30E-06	SL-3	< 0.001 U	--	< 0.001 U	--	--	< 0.001 U	< 0.001 U	**0.36**	< 0.1 U
4,4'-DDE	mg/kg	1.50E-06	SL-3	< 0.001 U	--	< 0.001 U	--	--	< 0.001 U	< 0.001 U	**0.75**	**0.12**
4,4'-DDT	mg/kg	1.60E-05	SL-3	< 0.001 U	--	< 0.001 U	--	--	< 0.025 U	< 0.001 U	< 0.05 U	< 0.1 U
Aldrin	mg/kg	4.00E-08	SL-3	< 0.0017 U	--	< 0.0017 U	--	--	< 0.0005 U	< 0.0005 U	**0.27**	< 0.17 U
Alpha-BHC	mg/kg	1.90E-06	SL-3	< 0.0005 U	--	< 0.0005 U	--	--	< 0.0005 U	< 0.0005 U	< 0.025 U	< 0.05 U
Beta-BHC	mg/kg	6.60E-05	SL-3	< 0.0005 U	--	< 0.0005 U	--	--	< 0.0005 U	< 0.0005 U	< 0.025 U	< 0.05 U
Chlordane	mg/kg	2.30E-05	SL-3	--	--	--	--	--	--	--	--	--
cis-Chlordane	mg/kg	0.0001	SL-8	< 0.0005 U	--	< 0.0005 U	--	--	< 0.0005 U	< 0.0005 U	< 0.025 U	< 0.05 U
cis-Nonachlor	mg/kg			--	--	--	--	--	< 0.001 U	< 0.001 U	--	--
Delta-BHC	mg/kg	0.0048	SL-1	< 0.0017 UJ	--	< 0.0017 UJ	--	--	< 0.0005 U	< 0.0005 U	< 0.085 UJ	< 0.17 UJ
Dieldrin	mg/kg	3.60E-08	SL-3	< 0.001 U	--	< 0.001 U	--	--	< 0.00599 U	< 0.001 U	**0.88**	< 0.1 U
Endosulfan I	mg/kg	0.0012	SL-3	< 0.0005 U	--	< 0.0005 U	--	--	< 0.0005 U	< 0.0005 U	< 0.025 U	**0.061**
Endosulfan II	mg/kg	0.0012	SL-3	< 0.001 U	--	< 0.001 U	--	--	< 0.00499 U	< 0.001 U	< 0.05 U	< 0.1 U
Endosulfan Sulfate	mg/kg	2	SL-3	< 0.001 U	--	< 0.001 U	--	--	< 0.001 U	< 0.001 U	< 0.05 U	< 0.1 U
Endrin	mg/kg	0.00044	SL-3	< 0.001 U	--	< 0.001 U	--	--	< 0.001 U	< 0.001 U	< 0.05 U	< 0.1 U
Endrin Aldehyde	mg/kg	0.0024	SL-3	< 0.001 U	--	< 0.001 U	--	--	< 0.001 U	< 0.001 U	< 0.05 U	< 0.1 U
Endrin ketone	mg/kg			< 0.001 U	--	< 0.001 U	--	--	< 0.001 U	< 0.001 U	< 0.05 U	< 0.1 U
Heptachlor	mg/kg	6.60E-08	SL-3	< 0.0005 U	--	< 0.0005 U	--	--	< 0.0005 U	< 0.0005 U	< 0.025 U	< 0.05 U
Heptachlor Epoxide	mg/kg	4.90E-07	SL-3	< 0.0005 U	--	< 0.0005 U	--	--	< 0.004 U	< 0.0005 U	< 0.025 U	< 0.05 U
Lindane	mg/kg	0.0039	SL-3	< 0.0005 U	--	< 0.0005 U	--	--	< 0.0005 U	< 0.0005 U	< 0.025 U	< 0.05 U
Methoxychlor	mg/kg	0.032	SL-3	< 0.005 U	--	< 0.005 U	--	--	< 0.00499 U	< 0.00499 U	< 0.25 U	< 0.5 U
Mirex	mg/kg	0.0071	SL-3	--	--	--	--	--	< 0.001 U	< 0.001 U	--	--
Oxychlordane	mg/kg			--	--	--	--	--	< 0.001 U	< 0.001 U	--	--
Toxaphene	mg/kg	6.10E-05	SL-3	< 0.025 U	--	< 0.025 U	--	--	--	--	< 1.25 U	< 2.5 U
trans-Chlordane	mg/kg	0.0001	SL-8	< 0.0017 U	--	< 0.0017 U	--	--	< 0.0005 U	< 0.0005 U	< 0.085 U	< 0.17 U
trans-Nonachlor	mg/kg			--	--	--	--	--	< 0.001 U	< 0.001 U	--	--
Total Petroleum Hydrocarbons (TPH)												
Gasoline Range Organics	mg/kg	30	SL-3	--	--	--	< 5.12 U	R	**18.9**	< 7.2 U	**2.5 J**	**16**
Diesel Range Organics	mg/kg	2000	SL-9	--	--	--	**82.4**	< 53.9 U	< 62.9 U	< 53.5 U	**900**	**1200**
Motor Oil Range Organics	mg/kg	2000	SL-9	--	--	--	**187**	< 108 U	< 126 U	< 107 U	**4200**	**3700**
Diesel and Oil Extended Range Organics	mg/kg	2000	SL-9	--	--	--	**269**	< 108 U	< 126 U	< 107 U	**5100**	**4900**
Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)												
Benzene	mg/kg	0.0088	SL-3	--	--	--	< 0.00093 U	< 0.00146 U	< 0.00154 U	< 0.0022 U	< 0.001 UJ	< 0.001 U
Toluene	mg/kg	0.72	SL-3	--	--	--	< 0.00093 U	< 0.00146 U	< 0.00154 U	**0.00071 J**	< 0.001 UJ	**0.0046**
Ethylbenzene	mg/kg	0.18	SL-3	--	--	--	< 0.00093 U	< 0.00146 U	< 0.00154 U	< 0.0022 U	< 0.001 UJ	**0.0017**
Total Xylenes	mg/kg	0.94	SL-3	--	--	--	< 0.00186 U	< 0.00293 U	< 0.00308 U	< 0.00441 U	< 0.002 UJ	**0.034**
Volatile Organic Compounds (VOCs)												
1,1,1,2-Tetrachloroethane	mg/kg	38	SL-1	--	--	--	< 0.00093 U	< 0.00146 U	< 0.00154 U	< 0.0022 U	< 0.05 UJ	< 0.05 U
1,1,1-Trichloroethane	mg/kg	370	SL-3	--	--	--	< 0.00093 U	< 0.00146 U	< 0.00154 U	< 0.0022 U	< 0.002 UJ	< 0.002 U
1,1,2 - Trichlorotrifluoroethane	mg/kg	2400000	SL-1	--	--	--	< 0.00186 U	< 0.00293 U	< 0.00308 U	< 0.00441 U	--	--
1,1,2,2-Tetrachloroethane	mg/kg	0.0017	SL-3	--	--	--	< 0.00093 U	< 0.00146 U	< 0.00154 U	< 0.0022 U	< 0.05 UJ	< 0.05 U
1,1,2-Trichloroethane	mg/kg	0.005	SL-3	--	--	--	< 0.00093 U	< 0.00146 U	< 0.00154 U	< 0.0022 U	< 0.005 UJ	< 0.005 U
1,1-Dichloroethane	mg/kg	180	SL-1	--	--	--	< 0.00093 U	< 0.00146 U	< 0.00154 U	< 0.0022 U	< 0.002 UJ	< 0.002 U
1,1-Dichloroethene	mg/kg	11	SL-9	--	--	--	< 0.00093 U	< 0.00146 U	< 0.00154 U	< 0.0022 U	< 0.001 UJ	< 0.001 UJ
1,1-Dichloropropene	mg/kg			--	--	--	< 0.00093 U	< 0.00146 U	< 0.00154 U	< 0.0022 U	< 0.05 UJ	< 0.05 U
1,2,3-Trichlorobenzene	mg/kg	64	SL-1	--	--	--	< 0.00465 U	< 0.00732 U	< 0.00769 U	< 0.011 U	< 0.25 UJ	< 0.25 UJ
1,2,3-Trichloropropane	mg/kg	0.0063	SL-1	--	--	--	< 0.00186 U	< 0.00293 U	< 0.00308 U	< 0.00441 U	< 0.05 UJ	< 0.05 U
1,2,4-Trichlorobenzene	mg/kg	0.0014	SL-3	--	--	--	< 0.00465 U	< 0.00732 U	< 0.00769 U	< 0.011 U	< 0.25 UJ	**0.011 J**
1,2,4-Trimethylbenzene	mg/kg	800	SL-1	--	--	--	< 0.00093 U	< 0.00146 U	< 0.00154 U	< 0.0022 U	< 0.05 UJ	**0.06 J**
1,2-Dibromo-3-chloropropane	mg/kg	0.23	SL-1	--	--	--	< 0.00465 U	< 0.00732 U	< 0.00769 U	< 0.011 U	< 0.5 UJ	< 0.5 U
1,2-Dibromoethane (EDB)	mg/kg	0.5	SL-1	--	--	--	< 0.00093 U	< 0.00146 U	< 0.00154 U	< 0.0022 U	< 0.005 UJ	< 0.005 U
1,2-Dichlorobenzene	mg/kg	0.035	SL-8	--	--	--	< 0.00093 U	< 0.00146 U	< 0.00154 U	< 0.0022 U	< 0.05 UJ	**0.097 J**
1,2-Dichloroethane (EDC)	mg/kg	0.35	SL-3	--	--	--	< 0.00093 U	< 0.00146 U	< 0.00154 U	< 0.0022 U	< 0.002 UJ	< 0.002 U
1,2-Dichloropropane	mg/kg	0.016	SL-3	--	--	--	< 0.00093 U	< 0.00146 U	< 0.00154 U	< 0.0022 U	< 0.05 UJ	< 0.05 U
1,3,5-Trimethylbenzene	mg/kg	800	SL-1	--	--	--	< 0.00093 U	< 0.00146 U	< 0.00154 U	< 0.0022 U	< 0.05 UJ	< 0.05 UJ
1,3-Dichlorobenzene	mg/kg	0.023	SL-3	--	--	--	< 0.00093 U	< 0.00146 U	< 0.00154 U	< 0.0022 U	< 0.05 UJ	< 0.05 U
1,3-Dichloropropane	mg/kg	0.0066	SL-3	--	--	--	< 0.00093 U	< 0.00146 U	< 0.00154 U	< 0.0022 U	< 0.05 UJ	< 0.05 U
1,4-Dichloro-2-Butene	mg/kg			--	--	--	< 0.00465 U	< 0.00732 U	< 0.00769 U	< 0.011 U	--	--
1,4-Dichlorobenzene	mg/kg	0.11	SL-8	--	--	--	< 0.00093 U	< 0.00146 U	< 0.00154 U	< 0.0022 U	< 0.25 UJ	< 0.05 U
2,2-Dichloropropane	mg/kg			--	--	--	< 0.00093 U	< 0.00146 U	< 0.00154 U	< 0.0022 U	< 0.05 UJ	< 0.05 U
2-Butanone	mg/kg	350	SL-9	--	--	--	< 0.00465 U	< 0.00732 U	< 0.00769 U	**0.00577 J**	< 1 UJ	< 1 U
2-Chloroethyl Vinyl Ether	mg/kg			--	--	--	< 0.00465 UJ	< 0.00732 UJ	< 0.00769 U	< 0.011 U	--	--
2-Chlorotoluene	mg/kg	1600	SL-1	--	--	--	< 0.00093 U	< 0.00146 U	< 0.00154 U	< 0.0022 U	< 0.05 UJ	< 0.05 U
2-Hexanone	mg/kg	400	SL-1	--	--	--	< 0.00465 U	< 0.00732 U	< 0.00769 U	< 0.011 U	< 0.5 UJ	< 0.5 U
2-Pentanone	mg/kg			--	--	--	< 0.00465 U	< 0.00732 UJ	< 0.00769 U	< 0.011 U	--	--
4-Chlorotoluene	mg/kg	1600	SL-1	--	--	--	< 0.00093 U	< 0.00146 U	< 0.00154 U	< 0.0022 U	< 0.05 UJ	< 0.05 U
4-Methyl-2-pentanone	mg/kg	6400	SL-1	--	--	--	< 0.00465 U	< 0.00732 U	< 0.00769 U	< 0.011 U	< 1 UJ	< 1 U
Acetone	mg/kg	1.2	SL-9	--	--	--	**0.0673**	**0.0735 J**	**0.0744 J**	**0.177**	< 5 UJ	< 5 U
Acrolein	mg/kg	0.0044	SL-3	--	--	--	< 0.00465 U	< 0.00732 U	< 0.00769 U	< 0.011 U	--	--
Acrylonitrile	mg/kg	0.00012	SL-3	--	--	--	< 0.00465 UJ	< 0.00732 U	< 0.00769 U	< 0.011 U	--	--
Bromobenzene	mg/kg	640	SL-1	--	--	--	< 0.00093 U	< 0.00146 U	< 0.00154 U	< 0.0022 U	< 0.05 UJ	< 0.05 U
Bromochloromethane	mg/kg			--	--	--	< 0.00093 U	< 0.00146 U	< 0.00154 U	< 0.0022 U	--	--
Bromodichloromethane	mg/kg	0.013	SL-3	--	--	--	< 0.00093 U	< 0.00146 U	< 0.00154 U	< 0.0022 U	< 0.005 UJ	< 0.005 U
Bromoform	mg/kg	0.078	SL-3	--	--	--	< 0.00093 U	< 0.00146 U	< 0.00154 U	< 0.0022 U	< 0.05 UJ	< 0.05 U
Bromomethane	mg/kg	0.24	SL-9	--	--	--	< 0.00093 U	< 0.00146 U	< 0.00154 U	**0.00291**	< 0.1 UJ	< 0.1 UJ
Carbon Disulfide	mg/kg	0.81	SL-9	--	--	--	**0.001**	< 0.00146 U	< 0.00154 U	< 0.0022 U	--	--
Carbon Tetrachloride	mg/kg	0.0029	SL-3	--	--	--	< 0.00093 U	< 0.00146 U	< 0.00154 U	< 0.0022 U	< 0.005 UJ	< 0.005 U
Chlorobenzene	mg/kg	1.7	SL-3	--	--	--	< 0.00093 U	< 0.00146 U	< 0.00154 U	< 0.0022 U	< 0.05 UJ	< 0.05 U
Chloroethane	mg/kg			--	--	--	< 0.00186 U	< 0.00293 U	< 0.00308 U	< 0.00441 U	< 0.1 UJ	< 0.1 UJ
Chloroform	mg/kg	0.81	SL-3	--	--	--	< 0.00093 U	< 0.00146 U	< 0.00154 U	< 0.0022 U	< 0.05 UJ	< 0.05 U
Chloromethane	mg/kg			--	--	--	< 0.00093 U	< 0.00146 U	< 0.00154 U	< 0.0022 U	< 0.5 UJ	< 0.5 UJ
cis-1,2-Dichloroethene (DCE)	mg/kg	24	SL-9	--	--	--	< 0.00093 U	< 0.00146 U	< 0.00154 U	< 0.0022 U	< 0.001 UJ	< 0.001 U
cis-1,3-Dichloropropene	mg/kg	0.0056	SL-3	--	--	--	< 0.00093 U	< 0.00146 U	< 0.00154 U	< 0.0022 U	< 0.01 UJ	< 0.01 U
Dibromochloromethane	mg/kg	0.01	SL-3	--	--	--	< 0.00093 U	< 0.00146 U	< 0.00154 U	< 0.0022 U	< 0.01 UJ	< 0.01 U
Dibromomethane	mg/kg	800	SL-1	--	--	--	< 0.00093 U	< 0.00146 U	< 0.00154 U	< 0.0022 U	< 0.05 UJ	< 0.05 U
Dichlorodifluoromethane	mg/kg	16000	SL-1	--	--	--	< 0.00093 U	< 0.00146 U	< 0.00154 U	< 0.0022 U	< 0.5 UJ	< 0.5 UJ
Isopropylbenzene	mg/kg	8000	SL-1	--	--	--	< 0.00093 U	< 0.00146 U	< 0.00154 U	< 0.0022 U	< 0.05 UJ	< 0.05 U
m,p-Xylenes	mg/kg			--	--	--	< 0.00186 U	< 0.00293 U	< 0.00308 U	< 0.00441 U	< 0.002 UJ	**0.013**
Methyl tert-butyl ether (MTBE)	mg/kg	560	SL-1	--	--	--	< 0.00093 U	< 0.00146 U	< 0.00154 U	< 0.0022 U	< 0.001 UJ	< 0.001 U
Methylene Chloride	mg/kg	0.43	SL-3	--	--	--	< 0.00465 U	< 0.00732 U	< 0.00769 U	**0.00962 J**	< 0.2 UJ	< 0.2 UJ
Methyliodide	mg/kg			--	--	--	< 0.00093 U	< 0.00146 U	< 0.00154 U	< 0.0022 U	--	--
n-Butylbenzene	mg/kg	4000	SL-1	--	--	--	< 0.00093 U	< 0.00146 U	< 0.00154 U	< 0.0022 U	--	--
n-Hexane	mg/kg	4800	SL-1	--	--	--	--	--	--	--	< 0.25 UJ	< 0.25 UJ
n-Propylbenzene	mg/kg	8000	SL-1	--	--	--	< 0.00093 U	< 0.00146 U	< 0.00154 U	< 0.0022 U	< 0.05 UJ	< 0.05 U
o-Xylene	mg/kg			--	--	--	< 0.00093 U	< 0.00146 U	< 0.00154 U	< 0.0022 U	< 0.001 UJ	**0.021**
p-Isopropyltoluene	mg/kg	320	SL-1	--	--	--	< 0.00093 U	< 0.00146 U	< 0.00154 U	< 0.0022 U	< 0.05 UJ	< 0.05 UJ
sec-Butylbenzene	mg/kg	8000	SL-1	--	--	--	< 0.00093 U	< 0.00146 U	< 0.00154 U	< 0.0022 U	< 0.05 UJ	< 0.05 UJ
Styrene	mg/kg	4.7	SL-9	--	--	--	< 0.00093 U	< 0.00146 U	< 0.00154 U	< 0.0022 U	< 0.05 UJ	< 0.05 U
tert-Butylbenzene	mg/kg	8000	SL-1	--	--	--	< 0.00093 U	< 0.00146 U	< 0.00154 U	< 0.0022 U	< 0.05 UJ	< 0.05 UJ
Tetrachloroethene (PCE)	mg/kg	0.029	SL-3	--	--	--	< 0.00093 U	< 0.00146 U	< 0.00154 U	< 0.0022 U	**0.014 J**	**0.064**
trans-1,2-Dichloroethene	mg/kg	0.78	SL-3	--	--	--	< 0.00093 U	< 0.00146 U	< 0.00154 U	< 0.0022 U	< 0.002 UJ	< 0.002 U
trans-1,3-Dichloropropene	mg/kg	0.0056	SL-3	--	--	--	< 0.00093 U	< 0.00146 U	< 0.00154 U	< 0.0022 U	< 0.01 UJ	< 0.01 U
Trichloroethene (TCE)	mg/kg	0.0044	SL-3	--	--	--	< 0.00093 U	< 0.00146 U	< 0.00154 U	< 0.0022 U	**0.0013 J**	**0.0013**
Trichlorofluoromethane	mg/kg	24000	SL-1	--	--	--	< 0.00186 U	< 0.00293 U	< 0.00308 U	< 0.00441 U	< 0.5 UJ	< 0.5 UJ
Vinyl Acetate	mg/kg	80000	SL-1	--	--	--	< 0.00465 U	< 0.00732 U	< 0.00769 U	< 0.011 U	--	--
Vinyl Chloride	mg/kg	0.0011	SL-3	--	--	--	< 0.00093 U	< 0.00146 U	< 0.00154 U	< 0.0022 U	< 0.001 UJ	< 0.001 UJ
Conventionals												
Total Organic Carbon	%			--	--	--	**0.26**	< 0.07 U	**0.15**	< 0.02 U	--	--
Total Solids	%			--	**76.2**	--	**86.3**	**92.0**	**91.7**	**92.4**	--	--

Table I.3.B. Vadose Soil Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL

				Location	MW-17			MW-18D			MW-19D	MW-20		MW-21
				Date	09/14/22	09/16/22	09/16/22	09/12/22	09/12/22	09/12/22	09/14/22	09/14/22	09/14/22	09/14/22
				Sample	MW-17-0-1	MW-17-0-1-TIG	MW-17-5-6	MW-18D-0-1	MW-18D-0-1-TIG	MW-18D-5-6	MW-19D-0-1	MW-20-0.5-1.5	MW-20-5-6	MW-21-5-6
				Depth	0 - 1 ft	0 - 1 ft	5 - 6 ft	0 - 1 ft	0 - 1 ft	5 - 6 ft	0 - 1 ft	0.5 - 1.5 ft	5 - 6 ft	5 - 6 ft
				Geologic Unit	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill
Analyte	Unit	Prelmiinary RI SL	Basis of SL											
Metals, Total														
Arsenic	mg/kg	7.3	SL-10	**12.7**	--	--	**4.13**	--	--	**3.21**	**3.42**	--	**2.76**	
Barium	mg/kg	250	SL-10	**146 J**	--	--	--	--	--	--	**42.5 J**	--	--	
Cadmium	mg/kg	0.77	SL-10	**1.25**	--	--	< 0.2 U	--	--	**0.335**	< 0.2 U	--	< 0.2 U	
Chromium	mg/kg	67	SL-9	**22.8**	--	--	**10.8**	--	--	**6.53**	**7.5**	--	**6.94**	
Copper	mg/kg	36	SL-10	**102**	--	--	**21.3**	--	--	**12.7**	**12**	--	**12**	
Lead	mg/kg	120	SL-9	**384**	--	--	**5.82**	--	--	**20.9**	**11.3**	--	**2.2**	
Mercury	mg/kg	0.07	SL-10	**0.16**	--	--	**0.08**	--	**0.027**	**0.038**	**0.031**	--	**0.029**	
Nickel	mg/kg	48	SL-10	**27.2**	--	--	**8.03**	--	--	**5.33**	**6.38**	--	**5.66**	
Selenium	mg/kg	0.78	SL-10	< 5 U	--	--	--	--	--	--	< 5 U	--	--	
Silver	mg/kg	0.61	SL-10	< 1 U	--	--	--	--	--	--	< 1 U	--	--	
Zinc	mg/kg	100	SL-3	**287**	--	--	**23.2**	--	--	**66.6**	**30.2**	--	**20.1**	
Butyl Tins														
Dibutyltin Ion	mg/kg			**0.00975**	--	< 0.00576 U	< 0.00572 U	--	--	< 0.00576 U	--	--	--	
Monobutyltin	mg/kg			**0.00786**	--	< 0.00407 U	< 0.00404 U	--	--	**0.00209 J**	--	--	--	
Tetrabutyltin	mg/kg			< 0.0049 U	--	< 0.00499 U	< 0.00495 U	--	--	< 0.00498 U	--	--	--	
Tributyltin Ion	mg/kg	0.0021	SL-8	**0.00925**	--	< 0.00385 U	< 0.00382 U	--	--	< 0.00384 U	--	--	--	
Polychlorinated Biphenyl (PCB) Aroclors														
Total PCB Aroclors (ND = 0)	mg/kg	1.10E-05	SL-3	**4.8**	--	--	< 0.004 U	--	--	< 0.004 U	< 0.004 U	--	< 0.004 U	
Polychlorinated Biphenyl (PCB) Congeners														
Total PCB Congeners (ND = 0)	mg/kg	1.10E-05	SL-3	--	--	--	--	**0.000728 J**	--	--	--	--	--	
Total PCB TEQ (ND = 0)	mg/kg	6.90E-09	SL-3	--	--	--	--	**3.32E-10 J**	--	--	--	--	--	
Dioxins/Furans														
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	5.20E-06	SL-10	--	**2.06E-06**	--	--	--	--	**1.73E-06 J**	**4.63E-07 J**	--	--	
2,3,7,8-TCDD	mg/kg	5.20E-06	SL-10	--	< 4.99E-07 U	--	--	--	--	< 4.90E-07 U	< 5.62E-08 U	--	--	
Polycyclic Aromatic Hydrocarbons (PAHs)														
1-Methylnaphthalene	mg/kg	20	SL-1	< 0.05 U	--	< 0.0005 U	< 0.0005 U	--	< 0.0005 U	**0.0064**	< 0.0025 U	--	**0.00059**	
2-Methylnaphthalene	mg/kg	0.67	SL-8	< 0.05 U	--	**0.00052**	< 0.0005 U	--	< 0.0005 U	**0.0063**	< 0.0025 U	--	**0.00079**	
Acenaphthene	mg/kg	0.5	SL-8	**0.057**	--	< 0.0005 U	< 0.0005 U	--	< 0.0005 U	**0.0032**	**0.0028**	--	**0.00064**	
Acenaphthylene	mg/kg	1.3	SL-8	< 0.05 U	--	< 0.0005 U	< 0.0005 U	--	< 0.0005 U	**0.018**	< 0.0025 U	--	< 0.0005 U	
Anthracene	mg/kg	0.96	SL-8	**0.11**	--	**0.0011**	< 0.0005 U	--	< 0.0005 U	**0.0095**	**0.014**	--	**0.0025**	
Benzo(g,h,i)perylene	mg/kg	0.67	SL-8	**8.5**	--	**0.071**	**0.0012**	--	< 0.0005 U	**0.062**	**0.097**	--	**0.0075**	
Fluoranthene	mg/kg	1.7	SL-8	**4.3**	--	**0.04**	**0.0022**	--	< 0.0005 U	**0.19**	**0.18**	--	**0.023**	
Fluorene	mg/kg	0.54	SL-8	< 0.05 U	--	< 0.0005 U	< 0.0005 U	--	< 0.0005 U	**0.011**	< 0.0025 U	--	**0.00053**	
Naphthalene	mg/kg	0.039	SL-3	< 0.005 U	--	**0.00061**	< 0.005 U	--	< 0.0005 U	**0.029**	< 0.005 U	< 0.005 U	< 0.005 U	
Phenanthrene	mg/kg	1.5	SL-8	**0.66**	--	**0.0065**	**0.00093**	--	< 0.0005 U	**0.14**	**0.069**	--	**0.015**	
Pyrene	mg/kg	2.6	SL-8	**5.5**	--	**0.048**	**0.0033**	--	< 0.0005 U	**0.21**	**0.27**	--	**0.029**	
Benz(a)anthracene	mg/kg	0.73	SL-9	**8.7**	--	**0.055**	**0.0015**	--	< 0.0005 U	**0.059**	**0.11**	--	**0.011**	
Benzo(a)pyrene	mg/kg	0.00031	SL-3	**22**	--	**0.14**	**0.0027**	--	< 0.0005 U	**0.14**	**0.22**	--	**0.012**	
Benzo(b)fluoranthene	mg/kg	44	SL-9	**28**	--	**0.16**	**0.0028**	--	< 0.0005 U	**0.16**	**0.27**	--	**0.013**	
Benzo(j)fluoranthene	mg/kg			--	--	--	--	--	--	--	--	--	--	
Benzo(j,k)fluoranthene	mg/kg			--	--	--	--	--	--	--	--	--	--	
Benzo(k)fluoranthene	mg/kg	71	SL-9	**10**	--	**0.056**	**0.001**	--	< 0.0005 U	**0.056**	**0.096**	--	**0.0045**	
Chrysene	mg/kg	1.4	SL-8	**11**	--	**0.083**	**0.0018**	--	< 0.0005 U	**0.098**	**0.14**	--	**0.013**	
Dibenzo(a,h)anthracene	mg/kg	0.23	SL-8	**2.2**	--	**0.016**	< 0.0005 U	--	< 0.0005 U	**0.0071**	**0.017**	--	**0.0015**	
Indeno(1,2,3-cd)pyrene	mg/kg	0.6	SL-8	**11**	--	**0.089**	**0.0013**	--	< 0.0005 U	**0.06**	**0.092**	--	**0.0078**	
Total Benzofluoranthenes	mg/kg	1.1	SL-9	**28**	--	**0.216**	**0.0038**	--	< 0.0005 U	**0.216**	**0.366**	--	**0.0175**	
Total HPAHs (ND = 1/2 RDL)	mg/kg	1.1	SL-9	**111**	--	**0.758**	**0.0181**	--	< 0.0005 U	**1.04**	**1.49**	--	**0.122**	
Total LPAHs (ND = 1/2 RDL)	mg/kg	5.2	SL-8	**0.88**	--	**0.00896**	**0.00443**	--	< 0.0005 U	**0.211**	**0.0908**	--	**0.0214**	
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	0.00031	SL-3	**28.1**	--	**0.178**	**0.0034**	--	< 0.000378 U	**0.175**	**0.28**	--	**0.0159**	
Semivolatile Organic Compounds (SVOCs)														
1,2-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--	--	
1,2-Diphenylhydrazine	mg/kg	0.00068	SL-3	< 0.25 U	--	--	< 0.0025 U	--	--	< 0.012 U	--	--	--	
1,3-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--	--	
1,4-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--	--	
2,3,4,6-Tetrachlorophenol	mg/kg	2400	SL-1	--	--	--	--	--	--	--	--	--	--	
2,3,5,6-Tetrachlorophenol	mg/kg			--	--	--	--	--	--	--	--	--	--	
2,3-Dichloroaniline	mg/kg			--	--	--	--	--	--	--	--	--	--	
2,4,5-Trichlorophenol	mg/kg	22	SL-3	< 2.5 U	--	--	< 0.025 U	--	--	< 0.12 U	--	--	--	
2,4,6-Trichlorophenol	mg/kg	0.0033	SL-3	< 2.5 U	--	--	< 0.025 U	--	--	< 0.12 U	--	--	--	
2,4-Dichlorophenol	mg/kg	0.069	SL-3	< 2.5 U	--	--	< 0.025 U	--	--	< 0.12 U	--	--	--	
2,4-Dimethylphenol	mg/kg	0.029	SL-8	< 2.5 U	--	--	< 0.025 U	--	--	< 0.12 U	--	--	--	
2,4-Dinitrophenol	mg/kg	0.061	SL-9	< 7.5 U	--	--	< 0.075 U	--	--	< 0.37 U	--	--	--	
2,4-Dinitrotoluene	mg/kg	0.0028	SL-3	< 1.2 U	--	--	< 0.012 U	--	--	< 0.062 U	--	--	--	
2,6-Dinitrotoluene	mg/kg	0.67	SL-1	< 1.2 U	--	--	< 0.012 U	--	--	< 0.062 U	--	--	--	
2-Chloronaphthalene	mg/kg	5.4	SL-3	< 0.25 U	--	--	< 0.0025 U	--	--	< 0.012 U	--	--	--	
2-Chlorophenol	mg/kg	0.2	SL-3	< 2.5 U	--	--	< 0.025 U	--	--	< 0.12 U	--	--	--	
2-Methylphenol	mg/kg	0.063	SL-8	< 2.5 U	--	--	< 0.025 U	--	--	< 0.12 U	--	--	--	
2-Nitroaniline	mg/kg	800	SL-1	< 1.2 U	--	--	< 0.012 U	--	--	< 0.062 U	--	--	--	
2-Nitrophenol	mg/kg			< 2.5 U	--	--	< 0.025 U	--	--	< 0.12 U	--	--	--	
3 & 4 Methylphenol	mg/kg			< 5 U	--	--	< 0.05 U	--	--	< 0.25 U	--	--	--	
3,3'-Dichlorobenzidine	mg/kg	2.20E-04	SL-3	< 2.5 U	--	--	< 0.025 U	--	--	< 0.12 U	--	--	--	
3-Nitroaniline	mg/kg			< 25 U	--	--	< 0.25 U	--	--	< 1.2 U	--	--	--	
4,6-Dinitro-2-methylphenol	mg/kg	0.13	SL-3	< 7.5 U	--	--	< 0.075 U	--	--	< 0.37 U	--	--	--	
4-Bromophenyl phenyl ether	mg/kg			< 0.25 U	--	--	< 0.0025 U	--	--	< 0.012 U	--	--	--	
4-Chloro-3-methylphenol	mg/kg	0.5	SL-3	< 2.5 U	--	--	< 0.025 U	--	--	< 0.12 U	--	--	--	
4-Chloroaniline	mg/kg	5	SL-1	< 25 U	--	--	< 0.25 U	--	--	< 1.2 U	--	--	--	
4-Chlorophenyl phenyl ether	mg/kg			< 0.25 U	--	--	< 0.0025 U	--	--	< 0.012 U	--	--	--	
4-Methylphenol	mg/kg	0.67	SL-8	< 5 U	--	--	< 0.05 U	--	--	< 0.25 U	--	--	--	
4-Nitroaniline	mg/kg	22	SL-9	< 25 U	--	--	< 0.25 U	--	--	< 1.2 U	--	--	--	
4-Nitrophenol	mg/kg			< 7.5 U	--	--	< 0.075 U	--	--	< 0.37 U	--	--	--	
Aniline	mg/kg	180	SL-1	--	--	--	--	--	--	--	--	--	--	
Benzoic acid	mg/kg	0.65	SL-8	< 12 U	--	--	< 0.12 U	--	--	< 0.62 U	--	--	--	
Benzyl alcohol	mg/kg	0.057	SL-8	< 2.5 U	--	--	< 0.025 U	--	--	< 0.12 U	--	--	--	
Benzyl butyl phthalate	mg/kg	0.0036	SL-3	< 2.5 U	--	--	< 0.025 U	--	--	< 0.12 U	--	--	--	
Bis(2-chloro-1-methylethyl) ether	mg/kg	0.59	SL-3	< 0.25 U	--	--	< 0.0025 U	--	--	< 0.012 U	--	--	--	
Bis(2-chloroethoxy)methane	mg/kg	240	SL-1	< 0.25 U	--	--	< 0.0025 U	--	--	< 0.012 U	--	--	--	
Bis(2-chloroethyl) ether	mg/kg	0.00033	SL-3	< 0.25 U	--	--	< 0.0025 U	--	--	< 0.012 U	--	--	--	
bis(2-Chloroisopropyl)ether	mg/kg			--	--	--	--	--	--	--	--	--	--	
Bis(2-ethylhexyl) adipate	mg/kg	830	SL-1	--	--	--	--	--	--	--	--	--	--	
Bis(2-ethylhexyl) phthalate	mg/kg	0.02	SL-9	< 4 U	--	--	< 0.04 U	--	--	< 0.2 U	--	--	--	
Carbazole	mg/kg	79	SL-9	< 0.25 U	--	--	< 0.0025 U	--	--	**0.014**	--	--	--	
Dibenzofuran	mg/kg	0.54	SL-8	< 0.25 U	--	--	< 0.0025 U	--	--	< 0.012 U	--	--	--	
Diethyl phthalate	mg/kg	0.2	SL-8	< 2.5 U	--	--	< 0.025 U	--	--	< 0.12 U	--	--	--	
Dimethyl phthalate	mg/kg	0.071	SL-8	< 2.5 U	--	--	< 0.025 U	--	--	< 0.12 U	--	--	--	
Di-n-butyl phthalate	mg/kg	0.011	SL-9	< 2.5 U	--	--	< 0.025 U	--	--	< 0.12 U	--	--	--	
Di-n-octyl phthalate	mg/kg	0.91	SL-9	< 2.5 U	--	--	< 0.025 U	--	--	< 0.12 U	--	--	--	
Hexachlorobenzene	mg/kg	8.00E-06	SL-3	< 0.25 U	--	--	< 0.0025 U	--	--	< 0.012 U	--	--	--	
Hexachlorobutadiene	mg/kg	0.00021	SL-3	< 0.01 U	--	< 0.01 U	< 0.01 U	--	--	< 0.012 U	< 0.01 U	< 0.01 U	< 0.01 U	
Hexachlorocyclopentadiene	mg/kg	0.032	SL-3	< 0.75 U	--	--	< 0.0075 U	--	--	< 0.037 U	--	--	--	
Hexachloroethane	mg/kg	0.00016	SL-3	< 0.25 U	--	--	< 0.0025 U	--	--	< 0.012 U	--	--	--	
Isophorone	mg/kg	0.58	SL-3	< 0.25 U	--	--	< 0.0025 U	--	--	< 0.012 U	--	--	--	
Nitrobenzene	mg/kg	0.64	SL-3	< 0.25 U	--	--	< 0.0025 U	--	--	< 0.012 U	--	--	--	
N-Nitrosodimethylamine	mg/kg	0.0015	SL-3	< 0.25 U	--	--	< 0.0025 U	--	--	< 0.012 U	--	--	--	
N-Nitroso-di-n-propylamine	mg/kg	0.00055	SL-3	< 0.25 U	--	--	< 0.0025 U	--	--	< 0.012 U	--	--	--	
N-Nitrosodiphenylamine	mg/kg	0.028	SL-8	< 0.25 UJ	--	--	< 0.0025 U	--	--	< 0.012 UJ	--	--	--	
Pentachlorophenol	mg/kg	3.20E-05	SL-3	< 1.2 U	--	--	< 0.012 U	--	--	< 0.062 U	--	--	--	
Phenol	mg/kg	0.42	SL-8	< 2.5 U	--	--	< 0.025 U	--	--	< 0.12 U	--	--	--	
Pyridine	mg/kg	80	SL-1	--	--	--	--	--	--	--	--	--	--	

Table I.3.B. Vadose Soil Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL

Location				MW-17			MW-18D			MW-19D	MW-20		MW-21
Date				09/14/22	09/16/22	09/16/22	09/12/22	09/12/22	09/12/22	09/14/22	09/14/22	09/14/22	09/14/22
Sample				MW-17-0-1	MW-17-0-1-TIG	MW-17-5-6	MW-18D-0-1	MW-18D-0-1-TIG	MW-18D-5-6	MW-19D-0-1	MW-20-0.5-1.5	MW-20-5-6	MW-21-5-6
Depth				0 - 1 ft	0 - 1 ft	5 - 6 ft	0 - 1 ft	0 - 1 ft	5 - 6 ft	0 - 1 ft	0.5 - 1.5 ft	5 - 6 ft	5 - 6 ft
Geologic Unit				Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill
Analyte	Unit	Prelmiinary RI SL	Basis of SL										
Pesticides													
2,4'-DDD	mg/kg			--	--	--	--	--	--	--	--	--	--
2,4'-DDE	mg/kg			--	--	--	--	--	--	--	--	--	--
2,4'-DDT	mg/kg			--	--	--	--	--	--	--	--	--	--
4,4'-DDD	mg/kg	7.30E-06	SL-3	< 0.01 U	--	--	< 0.001 U	--	< 0.001 U	< 0.001 U	--	--	--
4,4'-DDE	mg/kg	1.50E-06	SL-3	< 0.01 U	--	--	< 0.001 U	--	< 0.001 U	< 0.001 U	--	--	--
4,4'-DDT	mg/kg	1.60E-05	SL-3	< 0.01 U	--	--	< 0.001 U	--	< 0.001 U	< 0.001 U	--	--	--
Aldrin	mg/kg	4.00E-08	SL-3	< 0.017 U	--	--	< 0.0017 U	--	< 0.0017 U	< 0.0017 U	--	--	--
Alpha-BHC	mg/kg	1.90E-06	SL-3	< 0.005 U	--	--	< 0.0005 U	--	< 0.0005 U	< 0.0005 U	--	--	--
Beta-BHC	mg/kg	6.60E-05	SL-3	< 0.005 U	--	--	< 0.0005 U	--	< 0.0005 U	< 0.0005 U	--	--	--
Chlordane	mg/kg	2.30E-05	SL-3	--	--	--	--	--	--	--	--	--	--
cis-Chlordane	mg/kg	0.0001	SL-8	< 0.005 U	--	--	< 0.0005 U	--	< 0.0005 U	< 0.0005 U	--	--	--
cis-Nonachlor	mg/kg			--	--	--	--	--	--	--	--	--	--
Delta-BHC	mg/kg	0.0048	SL-1	< 0.005 U	--	--	< 0.0005 U	--	< 0.0005 U	< 0.0005 U	--	--	--
Dieldrin	mg/kg	3.60E-08	SL-3	< 0.01 U	--	--	< 0.001 U	--	< 0.001 U	< 0.001 U	--	--	--
Endosulfan I	mg/kg	0.0012	SL-3	< 0.005 U	--	--	< 0.0005 U	--	< 0.0005 U	< 0.0005 U	--	--	--
Endosulfan II	mg/kg	0.0012	SL-3	< 0.01 U	--	--	< 0.001 U	--	< 0.001 U	< 0.001 U	--	--	--
Endosulfan Sulfate	mg/kg	2	SL-3	< 0.01 U	--	--	< 0.001 U	--	< 0.001 U	< 0.001 U	--	--	--
Endrin	mg/kg	0.00044	SL-3	< 0.01 U	--	--	< 0.001 U	--	< 0.001 U	< 0.001 U	--	--	--
Endrin Aldehyde	mg/kg	0.0024	SL-3	< 0.01 U	--	--	< 0.001 U	--	< 0.001 U	< 0.001 U	--	--	--
Endrin ketone	mg/kg			< 0.01 U	--	--	< 0.001 U	--	< 0.001 U	< 0.001 U	--	--	--
Heptachlor	mg/kg	6.60E-08	SL-3	< 0.005 U	--	--	< 0.0005 U	--	< 0.0005 U	< 0.0005 U	--	--	--
Heptachlor Epoxide	mg/kg	4.90E-07	SL-3	< 0.005 U	--	--	< 0.0005 U	--	< 0.0005 U	< 0.0005 U	--	--	--
Lindane	mg/kg	0.0039	SL-3	< 0.005 U	--	--	< 0.0005 U	--	< 0.0005 U	< 0.0005 U	--	--	--
Methoxychlor	mg/kg	0.032	SL-3	< 0.05 U	--	--	< 0.005 U	--	< 0.005 U	< 0.005 U	--	--	--
Mirex	mg/kg	0.0071	SL-3	--	--	--	--	--	--	--	--	--	--
Oxychlordane	mg/kg			--	--	--	--	--	--	--	--	--	--
Toxaphene	mg/kg	6.10E-05	SL-3	< 0.25 U	--	--	< 0.025 U	--	< 0.025 U	< 0.025 U	--	--	--
trans-Chlordane	mg/kg	0.0001	SL-8	< 0.017 U	--	--	< 0.0017 U	--	< 0.0017 U	< 0.0017 U	--	--	--
trans-Nonachlor	mg/kg			--	--	--	--	--	--	--	--	--	--
Total Petroleum Hydrocarbons (TPH)													
Gasoline Range Organics	mg/kg	30	SL-3	< 5 U	--	< 5 U	< 5 U	--	--	< 5 U	R	--	**3 J**
Diesel Range Organics	mg/kg	2000	SL-9	**55 J**	--	< 10 U	< 10 U	--	--	< 5 UJ	< 5 UJ	--	< 5 UJ
Motor Oil Range Organics	mg/kg	2000	SL-9	**790**	--	< 50 U	< 50 U	--	--	< 25 U	< 25 U	--	< 25 U
Diesel and Oil Extended Range Organics	mg/kg	2000	SL-9	**845 J**	--	< 50 U	< 50 U	--	--	< 25 UJ	< 25 UJ	--	< 25 UJ
Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)													
Benzene	mg/kg	0.0088	SL-3	< 0.001 U	--	< 0.001 U	< 0.001 U	--	--	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U
Toluene	mg/kg	0.72	SL-3	< 0.001 U	--	< 0.001 U	< 0.002 U	--	--	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U
Ethylbenzene	mg/kg	0.18	SL-3	< 0.001 U	--	< 0.001 U	< 0.001 U	--	--	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U
Total Xylenes	mg/kg	0.94	SL-3	< 0.002 U	--	< 0.002 U	< 0.002 U	--	--	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U
Volatile Organic Compounds (VOCs)													
1,1,1,2-Tetrachloroethane	mg/kg	38	SL-1	< 0.05 U	--	< 0.05 U	< 0.05 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
1,1,1-Trichloroethane	mg/kg	370	SL-3	< 0.002 U	--	< 0.002 U	< 0.002 U	--	--	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U
1,1,2 - Trichlorotrifluoroethane	mg/kg	2400000	SL-1	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	0.0017	SL-3	< 0.05 U	--	< 0.05 U	< 0.05 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
1,1,2-Trichloroethane	mg/kg	0.005	SL-3	< 0.005 U	--	< 0.005 U	< 0.005 U	--	--	< 0.005 U	< 0.005 U	**0.022**	< 0.005 U
1,1-Dichloroethane	mg/kg	180	SL-1	< 0.002 U	--	< 0.002 U	< 0.002 U	--	--	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U
1,1-Dichloroethene	mg/kg	11	SL-9	< 0.001 U	--	< 0.001 U	< 0.001 U	--	--	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U
1,1-Dichloropropene	mg/kg			< 0.05 U	--	< 0.05 U	< 0.05 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
1,2,3-Trichlorobenzene	mg/kg	64	SL-1	< 0.25 U	--	< 0.25 U	< 0.25 U	--	--	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U
1,2,3-Trichloropropane	mg/kg	0.0063	SL-1	**0.15**	--	< 0.05 U	< 0.05 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
1,2,4-Trichlorobenzene	mg/kg	0.0014	SL-3	< 0.01 U	--	< 0.01 U	< 0.0025 U	--	--	< 0.012 U	< 0.01 U	< 0.01 U	< 0.01 U
1,2,4-Trimethylbenzene	mg/kg	800	SL-1	< 0.05 U	--	< 0.05 U	< 0.05 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
1,2-Dibromo-3-chloropropane	mg/kg	0.23	SL-1	< 0.5 U	--	< 0.5 U	< 0.5 U	--	--	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromoethane (EDB)	mg/kg	0.5	SL-1	< 0.005 U	--	< 0.005 U	< 0.005 U	--	--	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U
1,2-Dichlorobenzene	mg/kg	0.035	SL-8	< 0.05 U	--	< 0.05 U	< 0.05 U	--	--	< 0.012 U	< 0.05 U	< 0.05 U	< 0.05 U
1,2-Dichloroethane (EDC)	mg/kg	0.35	SL-3	< 0.002 U	--	< 0.002 U	< 0.002 U	--	--	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U
1,2-Dichloropropane	mg/kg	0.016	SL-3	< 0.05 U	--	< 0.05 U	< 0.05 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
1,3,5-Trimethylbenzene	mg/kg	800	SL-1	< 0.05 U	--	< 0.05 U	< 0.05 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
1,3-Dichlorobenzene	mg/kg	0.023	SL-3	< 0.05 U	--	< 0.05 U	< 0.05 U	--	--	< 0.012 U	< 0.05 U	< 0.05 U	< 0.05 U
1,3-Dichloropropane	mg/kg	0.0066	SL-3	< 0.05 U	--	< 0.05 U	< 0.05 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
1,4-Dichloro-2-Butene	mg/kg			--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	0.11	SL-8	< 0.25 U	--	< 0.05 U	< 0.0025 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
2,2-Dichloropropane	mg/kg			< 0.05 U	--	< 0.05 U	< 0.05 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
2-Butanone	mg/kg	350	SL-9	< 1 U	--	< 1 U	< 1 U	--	--	< 1 U	< 1 U	< 1 U	< 1 U
2-Chloroethyl Vinyl Ether	mg/kg			--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	1600	SL-1	< 0.05 U	--	< 0.05 U	< 0.05 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
2-Hexanone	mg/kg	400	SL-1	< 0.5 U	--	< 0.5 U	< 0.5 U	--	--	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Pentanone	mg/kg			--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	1600	SL-1	< 0.05 U	--	< 0.05 U	< 0.05 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
4-Methyl-2-pentanone	mg/kg	6400	SL-1	< 1 U	--	< 1 U	< 1 U	--	--	< 1 U	< 1 U	< 1 U	< 1 U
Acetone	mg/kg	1.2	SL-9	< 5 U	--	< 5 U	< 5 U	--	--	< 5 U	< 5 U	< 5 U	< 5 U
Acrolein	mg/kg	0.0044	SL-3	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	mg/kg	0.00012	SL-3	--	--	--	--	--	--	--	--	--	--
Bromobenzene	mg/kg	640	SL-1	< 0.05 U	--	< 0.05 U	< 0.05 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
Bromochloromethane	mg/kg			--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	0.013	SL-3	< 0.005 U	--	< 0.005 U	< 0.005 U	--	--	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U
Bromoform	mg/kg	0.078	SL-3	< 0.05 U	--	< 0.05 U	< 0.05 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
Bromomethane	mg/kg	0.24	SL-9	< 0.1 U	--	< 0.1 U	< 0.1 U	--	--	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U
Carbon Disulfide	mg/kg	0.81	SL-9	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	0.0029	SL-3	< 0.005 U	--	< 0.005 U	< 0.005 U	--	--	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U
Chlorobenzene	mg/kg	1.7	SL-3	< 0.05 U	--	< 0.05 U	< 0.05 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
Chloroethane	mg/kg			< 0.1 U	--	< 0.1 U	< 0.1 U	--	--	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U
Chloroform	mg/kg	0.81	SL-3	< 0.05 U	--	< 0.05 U	< 0.05 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
Chloromethane	mg/kg			< 0.5 U	--	< 0.5 U	< 0.5 U	--	--	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene (DCE)	mg/kg	24	SL-9	< 0.001 U	--	< 0.001 U	< 0.001 U	--	--	< 0.001 U	< 0.001 U	**0.0014**	< 0.001 U
cis-1,3-Dichloropropene	mg/kg	0.0056	SL-3	< 0.01 U	--	< 0.01 U	< 0.01 U	--	--	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Dibromochloromethane	mg/kg	0.01	SL-3	< 0.01 U	--	< 0.01 U	< 0.01 U	--	--	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Dibromomethane	mg/kg	800	SL-1	< 0.05 U	--	< 0.05 U	< 0.05 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
Dichlorodifluoromethane	mg/kg	16000	SL-1	< 0.5 U	--	< 0.5 U	< 0.5 U	--	--	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene	mg/kg	8000	SL-1	< 0.05 U	--	< 0.05 U	< 0.05 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
m,p-Xylenes	mg/kg			< 0.002 U	--	< 0.002 U	< 0.002 U	--	--	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U
Methyl tert-butyl ether (MTBE)	mg/kg	560	SL-1	< 0.001 U	--	< 0.001 U	< 0.001 U	--	--	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U
Methylene Chloride	mg/kg	0.43	SL-3	< 0.2 U	--	R	< 0.2 U	--	--	< 0.2 U	< 0.2 U	< 0.2 UJ	**0.23**
Methyliodide	mg/kg			--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	4000	SL-1	--	--	--	--	--	--	--	--	--	--
n-Hexane	mg/kg	4800	SL-1	< 0.25 U	--	< 0.25 U	< 0.25 U	--	--	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U
n-Propylbenzene	mg/kg	8000	SL-1	< 0.05 U	--	< 0.05 U	< 0.05 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
o-Xylene	mg/kg			< 0.001 U	--	< 0.001 U	< 0.001 U	--	--	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U
p-Isopropyltoluene	mg/kg	320	SL-1	< 0.05 U	--	< 0.05 U	< 0.05 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
sec-Butylbenzene	mg/kg	8000	SL-1	< 0.05 U	--	< 0.05 U	< 0.05 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
Styrene	mg/kg	4.7	SL-9	< 0.05 U	--	< 0.05 U	< 0.05 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
tert-Butylbenzene	mg/kg	8000	SL-1	< 0.05 U	--	< 0.05 U	< 0.05 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
Tetrachloroethene (PCE)	mg/kg	0.029	SL-3	**0.0023**	--	< 0.001 U	**0.013**	--	--	< 0.001 U	**1.9**	**0.85**	**0.055**
trans-1,2-Dichloroethene	mg/kg	0.78	SL-3	< 0.002 U	--	< 0.002 U	< 0.002 U	--	--	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U
trans-1,3-Dichloropropene	mg/kg	0.0056	SL-3	< 0.01 U	--	< 0.01 U	< 0.01 U	--	--	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Trichloroethene (TCE)	mg/kg	0.0044	SL-3	< 0.001 U	--	< 0.001 U	< 0.001 U	--	--	< 0.001 U	**0.0042**	**0.0025**	< 0.001 U
Trichlorofluoromethane	mg/kg	24000	SL-1	< 0.5 U	--	< 0.5 U	< 0.5 U	--	--	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Acetate	mg/kg	80000	SL-1	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	0.0011	SL-3	< 0.001 U	--	< 0.001 U	< 0.001 U	--	--	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U
Conventionals													
Total Organic Carbon	%			--	--	--	--	--	--	--	--	--	--
Total Solids	%			--	**97.8**	--	--	**68.3**	--	--	--	--	--

Table I.3.B. Vadose Soil Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL

				Location	MW-22		SB-02	SB-11	SB-12	SB-13		SB-14	SB-15	SB-16	SB-18
				Date	09/14/22	09/14/22	10/01/07	09/28/07	09/28/07	10/01/07	10/01/07	10/01/07	10/01/07	10/01/07	07/27/11
				Sample	MW-22-0-2-TIG	MW-22-5-6	SB-02-1	SB-11-2.5	SB-12-1.5	SB-13-1	SB-13-3.5	SB-14-3	SB-15-3.5	SB-16-3.5	SB18-5.0-072711
				Depth	0 - 2 ft	5 - 6 ft	1 - 1.5 ft	2.5 - 2.75 ft	1.5 - 2 ft	1 - 2 ft	3.5 - 4 ft	3 - 3.5 ft	3.5 - 4 ft	3.5 - 4 ft	5 - 5 ft
				Geologic Unit	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill
Analyte	Unit	Prelmiinary RI SL	Basis of SL												
Metals, Total															
Arsenic	mg/kg	7.3	SL-10	--	**3.41**	**1.5**	**6.7**	**7.2**	**1.7**	**1.3**	**2.3**	**4.5**	**9.4**	--
Barium	mg/kg	250	SL-10	--	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/kg	0.77	SL-10	--	< 0.2 U	**0.087**	**31.4**	**14.6**	**0.118**	**0.135**	**0.501**	**4.97**	**23.5**	--
Chromium	mg/kg	67	SL-9	--	**6.79**	**9**	**465**	**212**	**6.08**	**6.04**	**24.2**	**192**	**415**	--
Copper	mg/kg	36	SL-10	--	**11.2**	**8.9**	**198**	**111**	**8.71**	**8.02**	**9.72**	**69.6**	**132**	--
Lead	mg/kg	120	SL-9	--	**1.67**	**4.53**	**3100 J**	**1000 J**	**2.05**	**1.18**	**198**	**1030**	**3180**	--
Mercury	mg/kg	0.07	SL-10	--	< 0.025 U	**0.011**	**29.5**	**3.96**	**0.013**	**0.006**	**0.327**	**5.81**	**25.2**	--
Nickel	mg/kg	48	SL-10	--	**6.42**	--	--	--	--	--	--	--	--	--
Selenium	mg/kg	0.78	SL-10	--	--	--	--	--	--	--	--	--	--	--
Silver	mg/kg	0.61	SL-10	--	--	**0.052**	**0.299**	**0.191**	**0.056**	**0.038**	**0.064**	**0.136**	**0.23**	--
Zinc	mg/kg	100	SL-3	--	**16.7**	**20.3**	**1480**	**649**	**42.1**	**30.6**	**118**	**515**	**1510**	--
Butyl Tins															
Dibutyltin Ion	mg/kg			--	--	--	--	--	--	--	--	--	--	--
Monobutyltin	mg/kg			--	--	--	--	--	--	--	--	--	--	--
Tetrabutyltin	mg/kg			--	--	--	--	--	--	--	--	--	--	--
Tributyltin Ion	mg/kg	0.0021	SL-8	--	--	--	--	--	--	--	--	--	--	--
Polychlorinated Biphenyl (PCB) Aroclors															
Total PCB Aroclors (ND = 0)	mg/kg	1.10E-05	SL-3	--	< 0.004 U	< 0.0099 UA	**29 A**	**4.9 A**	**0.0084 A**	< 0.01 UA	**10.6 A**	**12 A**	**36 A**	--
Polychlorinated Biphenyl (PCB) Congeners															
Total PCB Congeners (ND = 0)	mg/kg	1.10E-05	SL-3	--	--	--	--	--	--	--	--	--	--	--
Total PCB TEQ (ND = 0)	mg/kg	6.90E-09	SL-3	--	--	--	--	--	--	--	--	--	--	--
Dioxins/Furans															
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	5.20E-06	SL-10	**2.91E-06 J**	--	--	--	--	--	--	--	--	--	--
2,3,7,8-TCDD	mg/kg	5.20E-06	SL-10	< 4.99E-07 U	--	--	--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)															
1-Methylnaphthalene	mg/kg	20	SL-1	--	< 0.0005 U	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene	mg/kg	0.67	SL-8	--	< 0.0005 U	< 0.009 U	**2**	**0.26**	< 0.0093 U	< 0.0098 U	< 0.48 U	**1.1**	**3**	--
Acenaphthene	mg/kg	0.5	SL-8	--	< 0.0005 U	< 0.009 U	**0.25 J**	< 0.099 U	< 0.0093 U	< 0.0098 U	< 0.48 U	< 0.99 U	< 0.92 U	--
Acenaphthylene	mg/kg	1.3	SL-8	--	< 0.0005 U	< 0.009 U	< 0.25 U	< 0.099 U	< 0.0093 U	< 0.0098 U	< 0.48 U	< 0.99 U	< 0.92 U	--
Anthracene	mg/kg	0.96	SL-8	--	< 0.0005 U	< 0.009 U	**0.33**	**0.065 J**	< 0.0093 U	< 0.0098 U	< 0.48 U	< 0.99 U	< 0.92 U	--
Benzo(g,h,i)perylene	mg/kg	0.67	SL-8	--	**0.0011**	< 0.009 U	< 0.25 U	**0.13**	< 0.0093 U	< 0.0098 U	< 0.48 U	< 0.99 U	< 0.92 U	--
Fluoranthene	mg/kg	1.7	SL-8	--	**0.00081**	< 0.009 U	**0.46**	**0.12**	< 0.0093 U	< 0.0098 U	< 0.48 U	**0.3 J**	**0.5 J**	--
Fluorene	mg/kg	0.54	SL-8	--	< 0.0005 U	< 0.009 U	< 0.25 U	**0.064 J**	< 0.0093 U	< 0.0098 U	< 0.48 U	**0.39 J**	**0.67 J**	--
Naphthalene	mg/kg	0.039	SL-3	--	< 0.0005 U	< 0.009 U	**2.5**	**0.36**	< 0.0093 U	< 0.0098 U	< 0.48 U	**0.36 J**	**2.4**	--
Phenanthrene	mg/kg	1.5	SL-8	--	**0.00087**	< 0.009 U	**1.3**	**0.16**	< 0.0093 U	< 0.0098 U	< 0.48 U	**0.98 J**	**1.4**	--
Pyrene	mg/kg	2.6	SL-8	--	**0.0012**	< 0.009 U	**0.82**	**0.17**	< 0.0093 U	< 0.0098 U	< 0.48 U	**0.5 J**	**0.81 J**	--
Benz(a)anthracene	mg/kg	0.73	SL-9	--	**0.00075**	< 0.009 U	**0.24 J**	**0.074 J**	< 0.0093 U	< 0.0098 U	< 0.48 U	< 0.99 U	**0.22 J**	--
Benzo(a)pyrene	mg/kg	0.00031	SL-3	--	**0.0014**	< 0.009 U	< 0.25 U	< 0.099 U	< 0.0093 U	< 0.0098 U	< 0.48 U	< 0.99 U	< 0.92 U	--
Benzo(b)fluoranthene	mg/kg	44	SL-9	--	**0.0019**	< 0.009 U	< 0.25 U	**0.13**	< 0.0093 U	< 0.0098 U	< 0.48 U	< 0.99 U	< 0.92 U	--
Benzo(j)fluoranthene	mg/kg			--	--	--	--	--	--	--	--	--	--	--
Benzo(j,k)fluoranthene	mg/kg			--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	mg/kg	71	SL-9	--	**0.00071**	< 0.009 U	< 0.25 U	< 0.099 U	< 0.0093 U	< 0.0098 U	< 0.48 U	< 0.99 U	< 0.92 U	--
Chrysene	mg/kg	1.4	SL-8	--	**0.0012**	< 0.009 U	**0.49**	**0.17**	< 0.0093 U	< 0.0098 U	< 0.48 U	< 0.99 U	**0.39 J**	--
Dibenzo(a,h)anthracene	mg/kg	0.23	SL-8	--	< 0.0005 U	< 0.009 U	< 0.25 U	< 0.099 U	< 0.0093 U	< 0.0098 U	< 0.48 U	< 0.99 U	< 0.92 U	--
Indeno(1,2,3-cd)pyrene	mg/kg	0.6	SL-8	--	**0.0011**	< 0.009 U	< 0.25 U	**0.1**	< 0.0093 U	< 0.0098 U	< 0.48 U	< 0.99 U	< 0.92 U	--
Total Benzofluoranthenes	mg/kg	1.1	SL-9	--	**0.00261**	< 0.009 UA	< 0.25 UA	**0.13 A**	< 0.0093 UA	< 0.0098 UA	< 0.48 UA	< 0.99 UA	< 0.92 UA	--
Total HPAHs (ND = 1/2 RDL)	mg/kg	1.1	SL-9	--	**0.0104**	< 0.009 U	**2.76 J**	**1.04 J**	< 0.0093 U	< 0.0098 U	< 0.48 U	**4.76 J**	**4.68 J**	--
Total LPAHs (ND = 1/2 RDL)	mg/kg	5.2	SL-8	--	**0.00212**	< 0.009 U	**4.63 J**	**0.748 J**	< 0.0093 U	< 0.0098 U	< 0.48 U	**3.21 J**	**5.85 J**	--
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	0.00031	SL-3	--	**0.00188**	< 0.0068 U	**0.204 J**	**0.0915 J**	< 0.00702 U	< 0.0074 U	< 0.362 U	< 0.747 U	**0.67 J**	--
Semivolatile Organic Compounds (SVOCs)															
1,2-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	mg/kg	0.00068	SL-3	--	--	--	--	--	--	--	--	--	--	--
1,3-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--	--	--
1,4-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	mg/kg	2400	SL-1	--	--	--	--	--	--	--	--	--	--	--
2,3,5,6-Tetrachlorophenol	mg/kg			--	--	--	--	--	--	--	--	--	--	--
2,3-Dichloroaniline	mg/kg			--	--	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	mg/kg	22	SL-3	--	--	--	--	--	--	--	--	--	--	--
2,4,6-Trichlorophenol	mg/kg	0.0033	SL-3	--	--	--	--	--	--	--	--	--	--	--
2,4-Dichlorophenol	mg/kg	0.069	SL-3	--	--	--	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	mg/kg	0.029	SL-8	--	--	R	R	R	R	R	R	R	R	--
2,4-Dinitrophenol	mg/kg	0.061	SL-9	--	--	--	--	--	--	--	--	--	--	--
2,4-Dinitrotoluene	mg/kg	0.0028	SL-3	--	--	--	--	--	--	--	--	--	--	--
2,6-Dinitrotoluene	mg/kg	0.67	SL-1	--	--	--	--	--	--	--	--	--	--	--
2-Chloronaphthalene	mg/kg	5.4	SL-3	--	--	--	--	--	--	--	--	--	--	--
2-Chlorophenol	mg/kg	0.2	SL-3	--	--	--	--	--	--	--	--	--	--	--
2-Methylphenol	mg/kg	0.063	SL-8	--	--	< 0.009 U	< 0.25 U	< 0.099 U	< 0.0093 U	< 0.0098 U	< 0.48 U	< 0.99 U	< 0.92 U	--
2-Nitroaniline	mg/kg	800	SL-1	--	--	--	--	--	--	--	--	--	--	--
2-Nitrophenol	mg/kg			--	--	--	--	--	--	--	--	--	--	--
3 & 4 Methylphenol	mg/kg			--	--	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	mg/kg	2.20E-04	SL-3	--	--	--	--	--	--	--	--	--	--	--
3-Nitroaniline	mg/kg			--	--	--	--	--	--	--	--	--	--	--
4,6-Dinitro-2-methylphenol	mg/kg	0.13	SL-3	--	--	--	--	--	--	--	--	--	--	--
4-Bromophenyl phenyl ether	mg/kg			--	--	--	--	--	--	--	--	--	--	--
4-Chloro-3-methylphenol	mg/kg	0.5	SL-3	--	--	--	--	--	--	--	--	--	--	--
4-Chloroaniline	mg/kg	5	SL-1	--	--	--	--	--	--	--	--	--	--	--
4-Chlorophenyl phenyl ether	mg/kg			--	--	--	--	--	--	--	--	--	--	--
4-Methylphenol	mg/kg	0.67	SL-8	--	--	< 0.009 U	< 0.25 U	< 0.099 U	< 0.0093 U	< 0.0098 U	< 0.48 U	< 0.99 U	< 0.92 U	--
4-Nitroaniline	mg/kg	22	SL-9	--	--	--	--	--	--	--	--	--	--	--
4-Nitrophenol	mg/kg			--	--	--	--	--	--	--	--	--	--	--
Aniline	mg/kg	180	SL-1	--	--	--	--	--	--	--	--	--	--	--
Benzoic acid	mg/kg	0.65	SL-8	--	--	< 0.18 U	< 4.9 U	< 2 U	< 0.19 U	< 0.2 U	< 9.6 U	< 20 U	< 19 U	--
Benzyl alcohol	mg/kg	0.057	SL-8	--	--	< 0.018 U	< 0.49 U	< 0.2 U	< 0.019 U	< 0.02 U	< 0.96 U	< 2 U	< 1.9 U	--
Benzyl butyl phthalate	mg/kg	0.0036	SL-3	--	--	< 0.009 U	**2.2**	< 0.099 U	< 0.0093 U	< 0.0098 U	< 0.48 U	< 0.99 U	< 0.92 U	--
Bis(2-chloro-1-methylethyl) ether	mg/kg	0.59	SL-3	--	--	--	--	--	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	mg/kg	240	SL-1	--	--	--	--	--	--	--	--	--	--	--
Bis(2-chloroethyl) ether	mg/kg	0.00033	SL-3	--	--	--	--	--	--	--	--	--	--	--
bis(2-Chloroisopropyl)ether	mg/kg			--	--	--	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) adipate	mg/kg	830	SL-1	--	--	--	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate	mg/kg	0.02	SL-9	--	--	< 0.09 U	< 3.7 U	< 1.1 U	< 0.093 U	< 0.098 U	< 4.8 U	**2.8 J**	**7 J**	--
Carbazole	mg/kg	79	SL-9	--	--	--	--	--	--	--	--	--	--	--
Dibenzofuran	mg/kg	0.54	SL-8	--	--	< 0.009 U	< 0.25 U	< 0.099 U	< 0.0093 U	< 0.0098 U	< 0.48 U	< 0.99 U	< 0.92 U	--
Diethyl phthalate	mg/kg	0.2	SL-8	--	--	< 0.009 U	< 0.25 U	< 0.099 U	< 0.0025 U	< 0.0097 U	< 0.48 U	< 0.99 U	< 0.92 U	--
Dimethyl phthalate	mg/kg	0.071	SL-8	--	--	< 0.009 U	< 0.25 U	**0.23**	< 0.0093 U	< 0.0098 U	< 0.48 U	< 0.99 U	< 0.92 U	--
Di-n-butyl phthalate	mg/kg	0.011	SL-9	--	--	< 0.018 U	< 0.8 U	< 0.42 U	< 0.019 U	< 0.02 U	< 0.96 U	**1.3 J**	**1.1 J**	--
Di-n-octyl phthalate	mg/kg	0.91	SL-9	--	--	< 0.009 U	< 0.25 U	< 0.099 U	< 0.0093 U	< 0.0098 U	< 0.48 U	< 0.99 U	< 0.92 U	--
Hexachlorobenzene	mg/kg	8.00E-06	SL-3	--	--	< 0.009 U	< 0.25 U	< 0.099 U	< 0.0093 U	< 0.0098 U	< 0.48 U	< 0.99 U	< 0.92 U	--
Hexachlorobutadiene	mg/kg	0.00021	SL-3	--	< 0.01 U	< 0.009 U	< 0.25 U	< 0.017 U	< 0.0093 U	< 0.0098 U	< 0.48 U	< 0.03 U	< 0.27 U	--
Hexachlorocyclopentadiene	mg/kg	0.032	SL-3	--	--	--	--	--	--	--	--	--	--	--
Hexachloroethane	mg/kg	0.00016	SL-3	--	--	--	--	--	--	--	--	--	--	--
Isophorone	mg/kg	0.58	SL-3	--	--	--	--	--	--	--	--	--	--	--
Nitrobenzene	mg/kg	0.64	SL-3	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine	mg/kg	0.0015	SL-3	--	--	--	--	--	--	--	--	--	--	--
N-Nitroso-di-n-propylamine	mg/kg	0.00055	SL-3	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	mg/kg	0.028	SL-8	--	--	< 0.009 U	< 0.25 U	< 0.099 U	< 0.0093 U	< 0.0098 U	< 0.48 U	< 0.99 U	< 0.92 U	--
Pentachlorophenol	mg/kg	3.20E-05	SL-3	--	--	< 0.09 U	**2.3 J**	**2.8**	< 0.093 U	< 0.098 U	< 4.8 U	< 9.9 U	< 9.2 U	--
Phenol	mg/kg	0.42	SL-8	--	--	< 0.03 U	< 0.74 U	< 0.083 U	< 0.03 U	< 0.032 U	< 1.5 U	< 3 U	< 2.8 U	--
Pyridine	mg/kg	80	SL-1	--	--	--	--	--	--	--	--	--	--	--

Table I.3.B. Vadose Soil Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL

				Location	MW-22		SB-02	SB-11	SB-12	SB-13		SB-14	SB-15	SB-16	SB-18
				Date	09/14/22	09/14/22	10/01/07	09/28/07	09/28/07	10/01/07	10/01/07	10/01/07	10/01/07	10/01/07	07/27/11
				Sample	MW-22-0-2-TIG	MW-22-5-6	SB-02-1	SB-11-2.5	SB-12-1.5	SB-13-1	SB-13-3.5	SB-14-3	SB-15-3.5	SB-16-3.5	SB18-5.0-072711
				Depth	0 - 2 ft	5 - 6 ft	1 - 1.5 ft	2.5 - 2.75 ft	1.5 - 2 ft	1 - 2 ft	3.5 - 4 ft	3 - 3.5 ft	3.5 - 4 ft	3.5 - 4 ft	5 - 5 ft
				Geologic Unit	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill
Analyte	Unit	Prelmiinary RI SL	Basis of SL												
Pesticides															
2,4'-DDD	mg/kg			--	--	< 0.00099 U	< 0.61 U	< 0.093 U	< 0.00099 U	< 0.001 U	< 0.5 U	< 0.28 U	< 0.67 U	--	
2,4'-DDE	mg/kg			--	--	< 0.00099 U	< 0.55 U	< 0.019 U	< 0.00099 U	< 0.001 U	< 0.077 U	< 0.24 U	< 0.59 U	--	
2,4'-DDT	mg/kg			--	--	**0.00051**	**3.4 J**	**0.37**	**0.00073 J**	< 0.001 U	**0.77**	**1.3**	**3.6 J**	--	
4,4'-DDD	mg/kg	7.30E-06	SL-3	--	--	< 0.00099 U	**0.8**	**0.051**	< 0.00099 U	< 0.001 U	**0.58**	**0.2**	**0.53**	--	
4,4'-DDE	mg/kg	1.50E-06	SL-3	--	--	< 0.00099 U	< 0.26 U	< 0.02 U	< 0.00099 U	< 0.001 U	**0.37 J**	< 0.18 U	< 0.3 U	--	
4,4'-DDT	mg/kg	1.60E-05	SL-3	--	--	**0.00087 J**	< 3.2 U	**0.6**	**0.0013 J**	< 0.001 U	**1.1 J**	**1.5 J**	**4 J**	--	
Aldrin	mg/kg	4.00E-08	SL-3	--	--	< 0.00099 U	**3.5**	< 0.019 U	< 0.00099 U	< 0.001 U	**0.24**	**0.76**	**1.9**	--	
Alpha-BHC	mg/kg	1.90E-06	SL-3	--	--	--	--	--	--	--	--	--	--	--	
Beta-BHC	mg/kg	6.60E-05	SL-3	--	--	--	--	--	--	--	--	--	--	--	
Chlordane	mg/kg	2.30E-05	SL-3	--	--	< 0.0099 U	< 3.1 U	< 0.62 U	< 0.0099 U	< 0.01 U	< 5 U	< 2.7 U	< 5.2 U	--	
cis-Chlordane	mg/kg	0.0001	SL-8	--	--	--	--	--	--	--	--	--	--	--	
cis-Nonachlor	mg/kg			--	--	--	--	--	--	--	--	--	--	--	
Delta-BHC	mg/kg	0.0048	SL-1	--	--	--	--	--	--	--	--	--	--	--	
Dieldrin	mg/kg	3.60E-08	SL-3	--	--	< 0.00099 U	< 0.14 U	< 0.035 U	**0.0021**	< 0.001 U	**0.92**	< 0.1 U	< 0.1 U	--	
Endosulfan I	mg/kg	0.0012	SL-3	--	--	--	--	--	--	--	--	--	--	--	
Endosulfan II	mg/kg	0.0012	SL-3	--	--	--	--	--	--	--	--	--	--	--	
Endosulfan Sulfate	mg/kg	2	SL-3	--	--	--	--	--	--	--	--	--	--	--	
Endrin	mg/kg	0.00044	SL-3	--	--	--	--	--	--	--	--	--	--	--	
Endrin Aldehyde	mg/kg	0.0024	SL-3	--	--	--	--	--	--	--	--	--	--	--	
Endrin ketone	mg/kg			--	--	--	--	--	--	--	--	--	--	--	
Heptachlor	mg/kg	6.60E-08	SL-3	--	--	< 0.00099 U	< 0.1 U	< 0.019 U	< 0.00099 U	< 0.001 U	< 0.01 U	< 0.1 U	< 0.1 U	--	
Heptachlor Epoxide	mg/kg	4.90E-07	SL-3	--	--	--	--	--	--	--	--	--	--	--	
Lindane	mg/kg	0.0039	SL-3	--	--	< 0.00099 U	< 0.1 U	< 0.019 U	< 0.00099 U	< 0.001 U	< 0.01 U	< 0.1 U	< 0.1 U	--	
Methoxychlor	mg/kg	0.032	SL-3	--	--	--	--	--	--	--	--	--	--	--	
Mirex	mg/kg	0.0071	SL-3	--	--	--	--	--	--	--	--	--	--	--	
Oxychlordane	mg/kg			--	--	--	--	--	--	--	--	--	--	--	
Toxaphene	mg/kg	6.10E-05	SL-3	--	--	--	--	--	--	--	--	--	--	--	
trans-Chlordane	mg/kg	0.0001	SL-8	--	--	--	--	--	--	--	--	--	--	--	
trans-Nonachlor	mg/kg			--	--	--	--	--	--	--	--	--	--	--	
Total Petroleum Hydrocarbons (TPH)															
Gasoline Range Organics	mg/kg	30	SL-3	--	< 5 U	< 20 U	< 2000 U	< 100 U	< 20 U	< 20 U	< 200 U	**150 J**	--	--	
Diesel Range Organics	mg/kg	2000	SL-9	--	< 5 UJ	< 50 U	**9600 J**	**1300 J**	< 1.8 U	< 50 U	**2100 J**	**4100 J**	**12000 J**	**6300 J**	
Motor Oil Range Organics	mg/kg	2000	SL-9	--	< 25 U	< 100 U	**26000 J**	**3700 J**	< 6.5 U	< 100 U	**8200 J**	**10000 J**	**27000 J**	**34000**	
Diesel and Oil Extended Range Organics	mg/kg	2000	SL-9	--	< 25 UJ	< 100 U	**35600 J**	**5000 J**	< 6.5 U	< 100 U	**10300 J**	**14100 J**	**39000 J**	**40300 J**	
Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)															
Benzene	mg/kg	0.0088	SL-3	--	< 0.001 U	--	**0.072**	< 0.0041 U	--	--	--	< 0.0075 U	**0.078**	--	
Toluene	mg/kg	0.72	SL-3	--	< 0.001 U	--	**4.1**	**0.0017**	--	--	--	**0.0023 J**	**7.2**	--	
Ethylbenzene	mg/kg	0.18	SL-3	--	< 0.001 U	--	**4.1**	**0.00023**	--	--	--	**0.0078 J**	**9.3**	--	
Total Xylenes	mg/kg	0.94	SL-3	--	< 0.002 U	--	**35**	**0.00179**	--	--	--	**0.0059 J**	**68**	--	
Volatile Organic Compounds (VOCs)															
1,1,1,2-Tetrachloroethane	mg/kg	38	SL-1	--	< 0.05 U	--	< 0.071 U	< 0.0041 U	--	--	--	< 0.0075 U	< 0.068 U	--	
1,1,1-Trichloroethane	mg/kg	370	SL-3	--	< 0.002 U	--	< 0.071 U	< 0.0041 U	--	--	--	< 0.0075 U	< 0.068 U	--	
1,1,2 - Trichlorotrifluoroethane	mg/kg	2400000	SL-1	--	--	--	--	--	--	--	--	--	--	--	
1,1,2,2-Tetrachloroethane	mg/kg	0.0017	SL-3	--	< 0.05 U	--	< 0.071 U	< 0.0041 U	--	--	--	< 0.0075 U	< 0.068 U	--	
1,1,2-Trichloroethane	mg/kg	0.005	SL-3	--	< 0.005 U	--	< 0.071 U	< 0.0041 U	--	--	--	< 0.0075 U	< 0.068 U	--	
1,1-Dichloroethane	mg/kg	180	SL-1	--	< 0.002 U	--	< 0.071 U	**0.00031**	--	--	--	< 0.0075 U	< 0.068 U	--	
1,1-Dichloroethene	mg/kg	11	SL-9	--	< 0.001 U	--	< 0.071 U	< 0.0041 U	--	--	--	< 0.0075 U	< 0.068 U	--	
1,1-Dichloropropene	mg/kg			--	< 0.05 U	--	< 0.071 U	< 0.0041 U	--	--	--	< 0.0075 U	< 0.068 U	--	
1,2,3-Trichlorobenzene	mg/kg	64	SL-1	--	< 0.25 U	--	< 0.29 U	< 0.017 U	--	--	--	< 0.03 U	< 0.27 U	--	
1,2,3-Trichloropropane	mg/kg	0.0063	SL-1	--	< 0.05 U	--	< 0.071 U	< 0.0041 U	--	--	--	< 0.0075 U	< 0.068 U	--	
1,2,4-Trichlorobenzene	mg/kg	0.0014	SL-3	--	< 0.01 U	< 0.009 U	< 0.25 U	< 0.017 U	< 0.0093 U	< 0.0098 U	< 0.48 U	< 0.03 U	< 0.27 U	--	
1,2,4-Trimethylbenzene	mg/kg	800	SL-1	--	< 0.05 U	--	**10**	**0.00023**	--	--	--	< 0.03 U	**17**	--	
1,2-Dibromo-3-chloropropane	mg/kg	0.23	SL-1	--	< 0.5 U	--	< 0.29 U	< 0.017 U	--	--	--	< 0.03 U	< 0.27 UJ	--	
1,2-Dibromoethane (EDB)	mg/kg	0.5	SL-1	--	< 0.005 U	--	< 0.29 U	< 0.017 U	--	--	--	< 0.03 U	< 0.27 U	--	
1,2-Dichlorobenzene	mg/kg	0.035	SL-8	--	< 0.05 U	< 0.009 U	**0.24**	< 0.0041 U	< 0.0093 U	< 0.0098 U	< 0.48 U	< 0.0075 U	**0.31**	--	
1,2-Dichloroethane (EDC)	mg/kg	0.35	SL-3	--	< 0.002 U	--	< 0.071 U	< 0.0041 U	--	--	--	< 0.0075 U	< 0.068 U	--	
1,2-Dichloropropane	mg/kg	0.016	SL-3	--	< 0.05 U	--	< 0.071 U	< 0.0041 U	--	--	--	< 0.0075 U	< 0.068 U	--	
1,3,5-Trimethylbenzene	mg/kg	800	SL-1	--	< 0.05 U	--	**3.3**	< 0.017 U	--	--	--	**0.058 J**	**6.6**	--	
1,3-Dichlorobenzene	mg/kg	0.023	SL-3	--	< 0.05 U	--	< 0.071 U	< 0.0041 U	--	--	--	< 0.0075 U	< 0.068 U	--	
1,3-Dichloropropane	mg/kg	0.0066	SL-3	--	< 0.05 U	--	< 0.071 U	< 0.0041 U	--	--	--	< 0.0075 U	< 0.068 U	--	
1,4-Dichloro-2-Butene	mg/kg			--	--	--	--	--	--	--	--	--	--	--	
1,4-Dichlorobenzene	mg/kg	0.11	SL-8	--	< 0.05 U	< 0.009 U	**0.038**	< 0.0041 U	< 0.0093 U	< 0.0098 U	< 0.48 U	< 0.0075 U	**0.038**	--	
2,2-Dichloropropane	mg/kg			--	< 0.05 U	--	< 0.071 U	< 0.0041 U	--	--	--	< 0.0075 U	< 0.068 UJ	--	
2-Butanone	mg/kg	350	SL-9	--	< 1 U	--	**0.71**	**0.012**	--	--	--	**0.0061 J**	**0.62**	--	
2-Chloroethyl Vinyl Ether	mg/kg			--	--	--	--	--	--	--	--	--	--	--	
2-Chlorotoluene	mg/kg	1600	SL-1	--	< 0.05 U	--	< 0.29 U	< 0.017 U	--	--	--	< 0.03 U	< 0.27 U	--	
2-Hexanone	mg/kg	400	SL-1	--	< 0.5 U	--	< 2.9 U	< 0.017 U	--	--	--	< 0.03 U	R	--	
2-Pentanone	mg/kg			--	--	--	--	--	--	--	--	--	--	--	
4-Chlorotoluene	mg/kg	1600	SL-1	--	< 0.05 U	--	< 0.29 U	< 0.017 U	--	--	--	< 0.03 U	< 0.27 U	--	
4-Methyl-2-pentanone	mg/kg	6400	SL-1	--	< 1 U	--	**1.4**	**0.0028**	--	--	--	< 0.03 U	**0.66 J**	--	
Acetone	mg/kg	1.2	SL-9	--	< 5 U	--	< 0.93 U	**0.048**	--	--	--	**0.044 J**	< 0.58 UJ	--	
Acrolein	mg/kg	0.0044	SL-3	--	--	--	--	--	--	--	--	--	--	--	
Acrylonitrile	mg/kg	0.00012	SL-3	--	--	--	--	--	--	--	--	--	--	--	
Bromobenzene	mg/kg	640	SL-1	--	< 0.05 U	--	< 0.29 U	< 0.0041 U	--	--	--	< 0.0075 U	< 0.27 U	--	
Bromochloromethane	mg/kg			--	--	--	< 0.071 U	< 0.0041 U	--	--	--	< 0.0075 U	< 0.068 U	--	
Bromodichloromethane	mg/kg	0.013	SL-3	--	< 0.005 U	--	< 0.071 U	< 0.0041 U	--	--	--	< 0.0075 U	< 0.068 U	--	
Bromoform	mg/kg	0.078	SL-3	--	< 0.05 U	--	< 0.071 U	< 0.0041 U	--	--	--	< 0.0075 U	< 0.068 U	--	
Bromomethane	mg/kg	0.24	SL-9	--	< 0.1 U	--	< 0.071 U	< 0.0041 U	--	--	--	< 0.0075 U	< 0.068 UJ	--	
Carbon Disulfide	mg/kg	0.81	SL-9	--	--	--	< 0.071 U	**0.00012**	--	--	--	**0.00067 J**	< 0.068 U	--	
Carbon Tetrachloride	mg/kg	0.0029	SL-3	--	< 0.005 U	--	< 0.071 U	< 0.0041 U	--	--	--	< 0.0075 U	< 0.068 U	--	
Chlorobenzene	mg/kg	1.7	SL-3	--	< 0.05 U	--	< 0.071 U	< 0.0041 U	--	--	--	< 0.0075 U	**0.046**	--	
Chloroethane	mg/kg			--	< 0.1 U	--	< 0.071 U	< 0.0041 U	--	--	--	< 0.0075 U	< 0.068 U	--	
Chloroform	mg/kg	0.81	SL-3	--	< 0.05 U	--	< 0.071 U	< 0.0041 U	--	--	--	< 0.0075 U	< 0.068 U	--	
Chloromethane	mg/kg			--	< 0.5 U	--	< 0.071 U	< 0.0041 U	--	--	--	< 0.0075 U	< 0.068 U	--	
cis-1,2-Dichloroethene (DCE)	mg/kg	24	SL-9	--	< 0.001 U	--	**8.9**	**0.0078**	--	--	--	**0.00054 J**	**11**	--	
cis-1,3-Dichloropropene	mg/kg	0.0056	SL-3	--	< 0.01 U	--	< 0.071 U	< 0.0041 U	--	--	--	< 0.0075 U	< 0.068 U	--	
Dibromochloromethane	mg/kg	0.01	SL-3	--	< 0.01 U	--	< 0.071 U	< 0.0041 U	--	--	--	< 0.0075 U	< 0.068 U	--	
Dibromomethane	mg/kg	800	SL-1	--	< 0.05 U	--	< 0.071 U	< 0.0041 U	--	--	--	< 0.0075 U	< 0.068 U	--	
Dichlorodifluoromethane	mg/kg	16000	SL-1	--	< 0.5 U	--	< 0.071 U	< 0.0041 U	--	--	--	< 0.0075 U	< 0.068 U	--	
Isopropylbenzene	mg/kg	8000	SL-1	--	< 0.05 U	--	**0.56**	< 0.017 U	--	--	--	**0.01 J**	**1.7**	--	
m,p-Xylenes	mg/kg			--	< 0.002 U	--	**21**	**0.0013**	--	--	--	**0.0046 J**	**44**	--	
Methyl tert-butyl ether (MTBE)	mg/kg	560	SL-1	--	< 0.001 U	--	--	--	--	--	--	--	--	--	
Methylene Chloride	mg/kg	0.43	SL-3	--	< 0.2 U	--	**0.034**	< 0.00044 U	--	--	--	< 0.00097 UJ	< 0.27 U	--	
Methyliodide	mg/kg			--	--	--	--	--	--	--	--	--	--	--	
n-Butylbenzene	mg/kg	4000	SL-1	--	--	--	**0.96**	< 0.017 U	--	--	--	< 0.03 U	**2**	--	
n-Hexane	mg/kg	4800	SL-1	--	< 0.25 U	--	--	--	--	--	--	--	--	--	
n-Propylbenzene	mg/kg	8000	SL-1	--	< 0.05 U	--	**0.67**	< 0.017 U	--	--	--	< 0.03 U	**1.8**	--	
o-Xylene	mg/kg			--	< 0.001 U	--	**14**	**0.00049**	--	--	--	**0.0013 J**	**24**	--	
p-Isopropyltoluene	mg/kg	320	SL-1	--	< 0.05 U	--	**1.2**	< 0.017 U	--	--	--	**0.039 J**	**2.6**	--	
sec-Butylbenzene	mg/kg	8000	SL-1	--	< 0.05 U	--	**0.54**	< 0.017 U	--	--	--	< 0.03 U	**1.2**	--	
Styrene	mg/kg	4.7	SL-9	--	< 0.05 U	--	**0.037**	< 0.0041 U	--	--	--	< 0.0075 U	< 0.068 U	--	
tert-Butylbenzene	mg/kg	8000	SL-1	--	< 0.05 U	--	**0.042**	< 0.017 U	--	--	--	< 0.03 U	**0.087**	--	
Tetrachloroethene (PCE)	mg/kg	0.029	SL-3	--	**0.069**	--	**0.16**	**0.0015**	--	--	--	**0.00073 J**	**0.17**	--	
trans-1,2-Dichloroethene	mg/kg	0.78	SL-3	--	< 0.002 U	--	**0.21**	< 0.0041 U	--	--	--	< 0.0075 U	**0.098**	--	
trans-1,3-Dichloropropene	mg/kg	0.0056	SL-3	--	< 0.01 U	--	< 0.071 U	< 0.0041 U	--	--	--	< 0.0075 U	< 0.068 U	--	
Trichloroethene (TCE)	mg/kg	0.0044	SL-3	--	< 0.001 U	--	**0.17**	**0.0005**	--	--	--	< 0.0075 U	**0.15**	--	
Trichlorofluoromethane	mg/kg	24000	SL-1	--	< 0.5 U	--	< 0.071 U	< 0.0041 U	--	--	--	< 0.0075 U	< 0.068 U	--	
Vinyl Acetate	mg/kg	80000	SL-1	--	--	--	--	--	--	--	--	--	--	--	
Vinyl Chloride	mg/kg	0.0011	SL-3	--	< 0.001 U	--	**0.09**	**0.0014**	--	--	--	**0.0027 J**	**0.87**	--	
Conventionals															
Total Organic Carbon	%			--	--	--	--	--	--	--	--	--	--	--	
Total Solids	%			**92.8**	--	**94.8**	**84**	**89.3**	**95.5**	**94.9**	**90.5**	**75.1**	**82.2**	--	

Table I.3.B. Vadose Soil Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL

			Location	SB-20	SB-23	SB-26		SB-27		SB-28		SB-29	
			Date	07/27/11	07/28/11	03/04/21	03/03/21	03/09/21	03/09/21	03/01/21	03/01/21	03/01/21	03/01/21
			Sample	SB20-4.0-072711	SB23-1.0-072811	SB-26-0-1	SB-26-4-5	SB-27-0-1	SB-27-3-5	SB-28-0-1	SB-28-3-5	SB-29-0-1	SB-29A-3-5
			Depth	4 - 4 ft	1 - 1 ft	0 - 1 ft	4 - 5 ft	0 - 1 ft	3 - 5 ft	0 - 1 ft	3 - 5 ft	0 - 1 ft	3 - 5 ft
			Geologic Unit	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill
Analyte	Unit	Prelmiinary RI SL	Basis of SL										
Metals, Total													
Arsenic	mg/kg	7.3	SL-10	--	--	**4.77**	**1.43**	**5.43 J**	**2.18**	**4.68 J**	**2.02**	**4.28 J**	**3.14 J**
Barium	mg/kg	250	SL-10	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/kg	0.77	SL-10	--	--	**5.09 J**	**0.16**	**0.25**	**0.04 J**	**0.32**	**0.04 J**	**0.27**	**0.05 J**
Chromium	mg/kg	67	SL-9	--	--	**150 J**	**23.7**	**10.9**	**8.23**	**13.2**	**10.2**	**14.6**	**10.8**
Copper	mg/kg	36	SL-10	--	--	**2470 J**	**7.97**	**111**	**9.95**	**35.8 J**	**9.63**	**25.8 J**	**15.5 J**
Lead	mg/kg	120	SL-9	--	--	**1490 J**	**23.9**	**57.6 J**	**1.32**	**54.6 J**	**2.39**	**33.5 J**	**3.27 J**
Mercury	mg/kg	0.07	SL-10	--	--	**11.5 J**	--	**0.0796 J**	--	**0.0472**	--	**0.025**	**0.0134 J**
Nickel	mg/kg	48	SL-10	--	--	**35.7**	**6.77**	**13.8 J**	**6.75**	**13.3**	**7.99**	**17**	**10.4**
Selenium	mg/kg	0.78	SL-10	--	--	--	--	--	--	--	--	--	--
Silver	mg/kg	0.61	SL-10	--	--	--	--	--	--	--	--	--	--
Zinc	mg/kg	100	SL-3	--	--	**771**	**85.7**	**77.9**	**18.6**	**75.5**	**24.2**	**60.8**	**27.7**
Butyl Tins													
Dibutyltin Ion	mg/kg			--	--	--	--	**0.617**	--	**0.0024 J**	--	**0.00893**	< 0.00573 U
Monobutyltin	mg/kg			--	--	--	--	**0.243**	--	< 0.00408 U	--	**0.0471**	< 0.00405 U
Tetrabutyltin	mg/kg			--	--	--	--	< 0.0497 U	--	< 0.005 U	--	< 0.00497 U	< 0.00496 U
Tributyltin Ion	mg/kg	0.0021	SL-8	--	--	--	--	**1.12**	--	**0.00143 J**	--	**0.00057 J**	< 0.00383 U
Polychlorinated Biphenyl (PCB) Aroclors													
Total PCB Aroclors (ND = 0)	mg/kg	1.10E-05	SL-3	--	--	**43.5 J**	--	**0.255**	--	**0.0521**	--	**0.0199**	< 0.0039 U
Polychlorinated Biphenyl (PCB) Congeners													
Total PCB Congeners (ND = 0)	mg/kg	1.10E-05	SL-3	--	--	**66.8 J**	--	--	--	--	--	--	--
Total PCB TEQ (ND = 0)	mg/kg	6.90E-09	SL-3	--	--	**1.88E-03**	--	--	--	--	--	--	--
Dioxins/Furans													
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	5.20E-06	SL-10	--	--	**2.55E-03 J**	--	--	--	--	--	--	--
2,3,7,8-TCDD	mg/kg	5.20E-06	SL-10	--	--	< 1.17E-04 U	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)													
1-Methylnaphthalene	mg/kg	20	SL-1	--	--	**0.0277**	--	**0.0125 J**	--	< 0.005 U	--	< 0.005 U	< 0.00499 U
2-Methylnaphthalene	mg/kg	0.67	SL-8	--	--	**0.0555 J**	--	**0.0125 J**	--	< 0.005 U	--	< 0.005 U	< 0.00499 U
Acenaphthene	mg/kg	0.5	SL-8	--	--	**0.0125 J**	--	**0.00433 J**	--	< 0.005 U	--	< 0.005 U	< 0.00499 U
Acenaphthylene	mg/kg	1.3	SL-8	--	--	**0.0632**	--	< 0.0248 U	--	**0.00217 J**	--	**0.00157 J**	< 0.00499 U
Anthracene	mg/kg	0.96	SL-8	--	--	**0.127 J**	--	**0.00743 J**	--	**0.00262 J**	--	**0.00232 J**	< 0.00499 U
Benzo(g,h,i)perylene	mg/kg	0.67	SL-8	--	--	**0.516 J**	--	**0.0766**	--	**0.0298**	--	**0.0408**	< 0.00499 U
Fluoranthene	mg/kg	1.7	SL-8	--	--	**0.283 J**	--	**0.104**	--	**0.0161**	--	**0.0213**	**0.00122 J**
Fluorene	mg/kg	0.54	SL-8	--	--	**0.0285**	--	**0.0039 J**	--	< 0.005 U	--	< 0.005 U	< 0.00499 U
Naphthalene	mg/kg	0.039	SL-3	--	--	< 0.00524 UJ	--	< 0.00665 U	--	< 0.005 U	--	< 0.005 U	< 0.00499 U
Phenanthrene	mg/kg	1.5	SL-8	--	--	**0.199 J**	--	**0.0433**	--	**0.0154**	--	**0.0101**	**0.00152 J**
Pyrene	mg/kg	2.6	SL-8	--	--	**0.211 J**	--	**0.0905**	--	**0.0214**	--	**0.0284**	**0.00098 J**
Benz(a)anthracene	mg/kg	0.73	SL-9	--	--	**0.178 J**	--	**0.0363**	--	**0.0123**	--	**0.0136**	< 0.00499 U
Benzo(a)pyrene	mg/kg	0.00031	SL-3	--	--	**0.276 J**	--	**0.0593**	--	**0.0243**	--	**0.0259**	< 0.00499 U
Benzo(b)fluoranthene	mg/kg	44	SL-9	--	--	**0.24 J**	--	**0.0803**	--	**0.0347**	--	**0.0259**	< 0.00499 U
Benzo(j)fluoranthene	mg/kg			--	--	**0.135 J**	--	**0.0369**	--	**0.0141**	--	**0.0136**	< 0.00499 U
Benzo(j,k)fluoranthene	mg/kg			--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	mg/kg	71	SL-9	--	--	**0.131 J**	--	**0.0281**	--	**0.0128**	--	**0.0122**	< 0.00499 U
Chrysene	mg/kg	1.4	SL-8	--	--	**0.252 J**	--	**0.107**	--	**0.0329**	--	**0.0245**	< 0.00499 U
Dibenzo(a,h)anthracene	mg/kg	0.23	SL-8	--	--	**0.0657**	--	**0.0107 J**	--	**0.00566**	--	**0.00542**	< 0.00499 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.6	SL-8	--	--	**0.373 J**	--	**0.0504**	--	**0.0201**	--	**0.0214**	< 0.00499 U
Total Benzofluoranthenes	mg/kg	1.1	SL-9	--	--	**0.489 J**	--	**0.143**	--	**0.0603**	--	**0.0529**	< 0.00999 U
Total HPAHs (ND = 1/2 RDL)	mg/kg	1.1	SL-9	--	--	**2.66 J**	--	**0.68 J**	--	**0.224**	--	**0.233**	**0.0247 J**
Total LPAHs (ND = 1/2 RDL)	mg/kg	5.2	SL-8	--	--	**0.433 J**	--	**0.0747 J**	--	**0.0277 J**	--	**0.0215 J**	**0.014 J**
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	0.00031	SL-3	--	--	**0.377 J**	--	**0.081 J**	--	**0.0332**	--	**0.034**	< 0.00377 U
Semivolatile Organic Compounds (SVOCs)													
1,2-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	mg/kg	0.00068	SL-3	--	--	--	--	--	--	--	--	--	--
1,3-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--	--
1,4-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	mg/kg	2400	SL-1	--	--	--	--	--	--	--	--	--	--
2,3,5,6-Tetrachlorophenol	mg/kg			--	--	--	--	--	--	--	--	--	--
2,3-Dichloroaniline	mg/kg			--	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	mg/kg	22	SL-3	--	--	< 0.1 U	--	< 0.0996 U	--	< 0.0997 U	--	< 0.0998 U	< 0.1 U
2,4,6-Trichlorophenol	mg/kg	0.0033	SL-3	--	--	< 0.1 U	--	< 0.0996 U	--	< 0.0997 U	--	< 0.0998 U	< 0.1 U
2,4-Dichlorophenol	mg/kg	0.069	SL-3	--	--	< 0.1 U	--	< 0.0996 U	--	< 0.0997 U	--	< 0.0998 U	< 0.1 U
2,4-Dimethylphenol	mg/kg	0.029	SL-8	--	--	< 0.1 U	--	< 0.0996 U	--	< 0.0997 U	--	< 0.0998 U	< 0.1 U
2,4-Dinitrophenol	mg/kg	0.061	SL-9	--	--	< 0.2 UJ	--	< 0.199 UJ	--	< 0.199 UJ	--	< 0.2 UJ	< 0.2 UJ
2,4-Dinitrotoluene	mg/kg	0.0028	SL-3	--	--	< 0.1 U	--	< 0.0996 U	--	< 0.0997 U	--	< 0.0998 U	< 0.1 U
2,6-Dinitrotoluene	mg/kg	0.67	SL-1	--	--	< 0.1 U	--	< 0.0996 U	--	< 0.0997 U	--	< 0.0998 U	< 0.1 U
2-Chloronaphthalene	mg/kg	5.4	SL-3	--	--	< 0.02 U	--	< 0.0199 U	--	< 0.0199 U	--	< 0.02 U	< 0.02 U
2-Chlorophenol	mg/kg	0.2	SL-3	--	--	< 0.02 U	--	< 0.0199 U	--	< 0.0199 U	--	< 0.02 U	< 0.02 U
2-Methylphenol	mg/kg	0.063	SL-8	--	--	< 0.02 U	--	< 0.0199 U	--	< 0.0199 U	--	< 0.02 U	< 0.02 U
2-Nitroaniline	mg/kg	800	SL-1	--	--	< 0.1 U	--	< 0.0996 U	--	< 0.0997 U	--	< 0.0998 U	< 0.1 U
2-Nitrophenol	mg/kg			--	--	< 0.02 U	--	< 0.0199 U	--	< 0.0199 U	--	< 0.02 U	< 0.02 U
3 & 4 Methylphenol	mg/kg			--	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	mg/kg	2.20E-04	SL-3	--	--	< 0.1 U	--	< 0.0996 U	--	< 0.0997 U	--	< 0.0998 U	< 0.1 U
3-Nitroaniline	mg/kg			--	--	< 0.1 U	--	< 0.0996 U	--	< 0.0997 U	--	< 0.0998 U	< 0.1 U
4,6-Dinitro-2-methylphenol	mg/kg	0.13	SL-3	--	--	< 0.2 UJ	--	< 0.199 U	--	< 0.199 U	--	< 0.2 U	< 0.2 U
4-Bromophenyl phenyl ether	mg/kg			--	--	< 0.02 U	--	< 0.0199 U	--	< 0.0199 U	--	< 0.02 U	< 0.02 U
4-Chloro-3-methylphenol	mg/kg	0.5	SL-3	--	--	< 0.1 U	--	< 0.0996 U	--	< 0.0997 U	--	< 0.0998 U	< 0.1 U
4-Chloroaniline	mg/kg	5	SL-1	--	--	< 0.1 U	--	< 0.0996 U	--	< 0.0997 U	--	< 0.0998 U	< 0.1 U
4-Chlorophenyl phenyl ether	mg/kg			--	--	< 0.02 U	--	< 0.0199 U	--	< 0.0199 UJ	--	< 0.02 UJ	< 0.02 UJ
4-Methylphenol	mg/kg	0.67	SL-8	--	--	< 0.02 U	--	< 0.0199 U	--	< 0.0199 UJ	--	< 0.02 UJ	< 0.02 UJ
4-Nitroaniline	mg/kg	22	SL-9	--	--	**0.125 J**	--	< 0.0996 U	--	< 0.0997 U	--	< 0.0998 U	< 0.1 U
4-Nitrophenol	mg/kg			--	--	< 0.1 U	--	< 0.0996 U	--	< 0.0997 UJ	--	< 0.0998 UJ	< 0.1 UJ
Aniline	mg/kg	180	SL-1	--	--	--	--	--	--	--	--	--	--
Benzoic acid	mg/kg	0.65	SL-8	--	--	**0.0896 J**	--	< 0.199 UJ	--	< 0.199 U	--	< 0.2 U	< 0.2 U
Benzyl alcohol	mg/kg	0.057	SL-8	--	--	< 0.02 U	--	**0.0149 J**	--	< 0.0199 UJ	--	< 0.02 UJ	< 0.02 UJ
Benzyl butyl phthalate	mg/kg	0.0036	SL-3	--	--	< 0.02 UJ	--	**0.122**	--	< 0.0199 U	--	< 0.02 U	< 0.02 U
Bis(2-chloro-1-methylethyl) ether	mg/kg	0.59	SL-3	--	--	< 0.02 U	--	< 0.0199 U	--	< 0.0199 U	--	< 0.02 U	< 0.02 U
Bis(2-chloroethoxy)methane	mg/kg	240	SL-1	--	--	< 0.02 U	--	< 0.0199 U	--	< 0.0199 U	--	< 0.02 U	< 0.02 U
Bis(2-chloroethyl) ether	mg/kg	0.00033	SL-3	--	--	< 0.02 U	--	< 0.0199 U	--	< 0.0199 U	--	< 0.02 U	< 0.02 U
bis(2-Chloroisopropyl)ether	mg/kg			--	--	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) adipate	mg/kg	830	SL-1	--	--	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate	mg/kg	0.02	SL-9	--	--	< 0.5 UJ	--	**0.981**	--	**0.0466 J**	--	< 0.0499 U	< 0.05 U
Carbazole	mg/kg	79	SL-9	--	--	**0.0309 J**	--	**0.0682**	--	< 0.0199 U	--	< 0.02 U	< 0.02 U
Dibenzofuran	mg/kg	0.54	SL-8	--	--	**0.0199**	--	< 0.0248 U	--	< 0.005 U	--	< 0.005 U	< 0.00499 U
Diethyl phthalate	mg/kg	0.2	SL-8	--	--	< 0.02 U	--	< 0.0199 U	--	< 0.0199 U	--	< 0.02 U	< 0.02 U
Dimethyl phthalate	mg/kg	0.071	SL-8	--	--	< 0.02 UJ	--	**0.197**	--	< 0.0199 U	--	< 0.02 U	< 0.02 U
Di-n-butyl phthalate	mg/kg	0.011	SL-9	--	--	**0.113 J**	--	**0.268**	--	< 0.0199 U	--	< 0.02 U	< 0.02 U
Di-n-octyl phthalate	mg/kg	0.91	SL-9	--	--	< 0.2 U	--	**0.0279**	--	< 0.0199 U	--	< 0.02 U	< 0.02 U
Hexachlorobenzene	mg/kg	8.00E-06	SL-3	--	--	< 0.00998 U	--	< 0.0199 U	--	< 0.0199 U	--	< 0.0005 U	< 0.0005 U
Hexachlorobutadiene	mg/kg	0.00021	SL-3	--	--	< 0.00524 UJ	--	< 0.00665 U	--	< 0.00499 UJ	--	< 0.0005 U	< 0.0005 U
Hexachlorocyclopentadiene	mg/kg	0.032	SL-3	--	--	< 0.1 UJ	--	< 0.0996 UJ	--	< 0.0997 UJ	--	< 0.0998 UJ	< 0.1 UJ
Hexachloroethane	mg/kg	0.00016	SL-3	--	--	< 0.02 U	--	< 0.0199 U	--	< 0.0199 U	--	< 0.02 U	< 0.02 U
Isophorone	mg/kg	0.58	SL-3	--	--	< 0.02 U	--	< 0.0199 U	--	< 0.0199 UJ	--	< 0.02 UJ	< 0.02 UJ
Nitrobenzene	mg/kg	0.64	SL-3	--	--	< 0.02 U	--	< 0.0199 U	--	< 0.0199 U	--	< 0.02 U	< 0.02 U
N-Nitrosodimethylamine	mg/kg	0.0015	SL-3	--	--	--	--	--	--	--	--	--	--
N-Nitroso-di-n-propylamine	mg/kg	0.00055	SL-3	--	--	< 0.02 U	--	< 0.0199 U	--	< 0.0199 U	--	< 0.02 U	< 0.02 U
N-Nitrosodiphenylamine	mg/kg	0.028	SL-8	--	--	**0.0506 J**	--	< 0.0199 U	--	< 0.0199 U	--	< 0.02 U	< 0.02 U
Pentachlorophenol	mg/kg	3.20E-05	SL-3	--	--	**0.429 J**	--	< 0.0996 UJ	--	< 0.0997 UJ	--	< 0.0998 UJ	< 0.1 UJ
Phenol	mg/kg	0.42	SL-8	--	--	**0.0149 J**	--	**0.0097 J**	--	< 0.0199 U	--	< 0.02 U	< 0.02 U
Pyridine	mg/kg	80	SL-1	--	--	--	--	--	--	--	--	--	--

Table I.3.B. Vadose Soil Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL

				Location	SB-20	SB-23	SB-26		SB-27		SB-28		SB-29	
				Date	07/27/11	07/28/11	03/04/21	03/03/21	03/09/21	03/09/21	03/01/21	03/01/21	03/01/21	03/01/21
				Sample	SB20-4.0-072711	SB23-1.0-072811	SB-26-0-1	SB-26-4-5	SB-27-0-1	SB-27-3-5	SB-28-0-1	SB-28-3-5	SB-29-0-1	SB29A-3-5
				Depth	4 - 4 ft	1 - 1 ft	0 - 1 ft	4 - 5 ft	0 - 1 ft	3 - 5 ft	0 - 1 ft	3 - 5 ft	0 - 1 ft	3 - 5 ft
				Geologic Unit	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill
Analyte	Unit	Prelmiinary RI SL	Basis of SL											
Pesticides														
2,4'-DDD	mg/kg			--	--	< 5.99 U	--	--	--	--	--	< 0.001 U	< 0.001 U
2,4'-DDE	mg/kg			--	--	< 39.9 U	--	--	--	--	--	< 0.001 U	< 0.001 U
2,4'-DDT	mg/kg			--	--	< 20 U	--	--	--	--	--	< 0.001 U	< 0.001 U
4,4'-DDD	mg/kg	7.30E-06	SL-3	--	--	< 0.02 U	--	--	--	--	--	< 0.001 U	< 0.001 U
4,4'-DDE	mg/kg	1.50E-06	SL-3	--	--	< 39.9 U	--	--	--	--	--	< 0.001 U	< 0.001 U
4,4'-DDT	mg/kg	1.60E-05	SL-3	--	--	< 39.9 U	--	--	--	--	--	< 0.003 U	< 0.001 U
Aldrin	mg/kg	4.00E-08	SL-3	--	--	< 7.99 UJ	--	--	--	--	--	< 0.0005 U	< 0.0005 U
Alpha-BHC	mg/kg	1.90E-06	SL-3	--	--	< 0.00998 U	--	--	--	--	--	< 0.0005 U	< 0.0005 U
Beta-BHC	mg/kg	6.60E-05	SL-3	--	--	< 0.00998 U	--	--	--	--	--	< 0.0005 U	< 0.0005 U
Chlordane	mg/kg	2.30E-05	SL-3	--	--	--	--	--	--	--	--	--	--
cis-Chlordane	mg/kg	0.0001	SL-8	--	--	< 0.00998 U	--	--	--	--	--	< 0.0005 U	< 0.0005 U
cis-Nonachlor	mg/kg			--	--	< 20 U	--	--	--	--	--	< 0.001 U	< 0.001 U
Delta-BHC	mg/kg	0.0048	SL-1	--	--	< 0.00998 U	--	--	--	--	--	< 0.0005 U	< 0.0005 U
Dieldrin	mg/kg	3.60E-08	SL-3	--	--	< 39.9 UJ	--	--	--	--	--	< 0.001 U	< 0.001 U
Endosulfan I	mg/kg	0.0012	SL-3	--	--	< 0.00998 U	--	--	--	--	--	< 0.0005 U	< 0.0005 U
Endosulfan II	mg/kg	0.0012	SL-3	--	--	< 3.99 U	--	--	--	--	--	< 0.001 U	< 0.001 U
Endosulfan Sulfate	mg/kg	2	SL-3	--	--	< 2.99 U	--	--	--	--	--	< 0.001 U	< 0.001 U
Endrin	mg/kg	0.00044	SL-3	--	--	< 0.02 U	--	--	--	--	--	< 0.001 U	< 0.001 U
Endrin Aldehyde	mg/kg	0.0024	SL-3	--	--	< 2.99 U	--	--	--	--	--	< 0.002 U	< 0.001 U
Endrin ketone	mg/kg			--	--	< 7.99 U	--	--	--	--	--	< 0.001 U	< 0.001 U
Heptachlor	mg/kg	6.60E-08	SL-3	--	--	< 0.998 U	--	--	--	--	--	< 0.0005 U	< 0.0005 U
Heptachlor Epoxide	mg/kg	4.90E-07	SL-3	--	--	< 0.00998 U	--	--	--	--	--	< 0.0005 U	< 0.0005 U
Lindane	mg/kg	0.0039	SL-3	--	--	< 0.00998 U	--	--	--	--	--	< 0.0005 U	< 0.0005 U
Methoxychlor	mg/kg	0.032	SL-3	--	--	< 0.0998 U	--	--	--	--	--	< 0.005 U	< 0.00499 U
Mirex	mg/kg	0.0071	SL-3	--	--	< 1.2 U	--	--	--	--	--	< 0.001 U	< 0.001 U
Oxychlordane	mg/kg			--	--	< 0.02 U	--	--	--	--	--	< 0.001 U	< 0.001 U
Toxaphene	mg/kg	6.10E-05	SL-3	--	--	--	--	--	--	--	--	--	--
trans-Chlordane	mg/kg	0.0001	SL-8	--	--	< 0.00998 U	--	--	--	--	--	< 0.0005 U	< 0.0005 U
trans-Nonachlor	mg/kg			--	--	< 5.99 U	--	--	--	--	--	< 0.001 U	< 0.001 U
Total Petroleum Hydrocarbons (TPH)														
Gasoline Range Organics	mg/kg	30	SL-3	--	--	**12.6**	--	**77.7**	--	< 6.92 U	--	R	< 7.78 U
Diesel Range Organics	mg/kg	2000	SL-9	**1400 J**	< 27 U	**1670**	--	**266**	--	< 54.4 U	--	< 54.6 U	< 61.5 U
Motor Oil Range Organics	mg/kg	2000	SL-9	**8500**	**81**	**7100**	--	**994**	--	**540**	--	**137**	< 123 U
Diesel and Oil Extended Range Organics	mg/kg	2000	SL-9	**9900 J**	**81**	**8770**	--	**1260**	--	**540**	--	**137**	< 123 U
Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)														
Benzene	mg/kg	0.0088	SL-3	--	--	< 0.00105 UJ	--	< 0.00133 U	--	< 0.001 UJ	--	< 0.00116 U	< 0.00122 U
Toluene	mg/kg	0.72	SL-3	--	--	< 0.00105 UJ	--	< 0.00133 U	--	< 0.001 UJ	--	**0.00035 J**	< 0.00122 U
Ethylbenzene	mg/kg	0.18	SL-3	--	--	< 0.00105 UJ	--	< 0.00133 U	--	< 0.001 UJ	--	< 0.00116 U	< 0.00122 U
Total Xylenes	mg/kg	0.94	SL-3	--	--	< 0.00209 UJ	--	< 0.00266 U	--	< 0.00199 UJ	--	< 0.00232 U	< 0.00243 U
Volatile Organic Compounds (VOCs)														
1,1,1,2-Tetrachloroethane	mg/kg	38	SL-1	--	--	< 0.00105 UJ	--	< 0.00133 U	--	< 0.001 UJ	--	< 0.00116 U	< 0.00122 U
1,1,1-Trichloroethane	mg/kg	370	SL-3	--	--	< 0.00105 UJ	--	< 0.00133 U	--	< 0.001 UJ	--	< 0.00116 U	< 0.00122 U
1,1,2 - Trichlorotrifluoroethane	mg/kg	2400000	SL-1	--	--	< 0.00209 UJ	--	< 0.00266 U	--	< 0.00199 UJ	--	< 0.00232 U	< 0.00243 U
1,1,2,2-Tetrachloroethane	mg/kg	0.0017	SL-3	--	--	< 0.00105 UJ	--	< 0.00133 U	--	< 0.001 UJ	--	< 0.00116 U	< 0.00122 U
1,1,2-Trichloroethane	mg/kg	0.005	SL-3	--	--	< 0.00105 UJ	--	< 0.00133 U	--	< 0.001 UJ	--	< 0.00116 U	< 0.00122 U
1,1-Dichloroethane	mg/kg	180	SL-1	--	--	< 0.00105 UJ	--	< 0.00133 U	--	< 0.001 UJ	--	< 0.00116 U	< 0.00122 U
1,1-Dichloroethene	mg/kg	11	SL-9	--	--	< 0.00105 UJ	--	< 0.00133 U	--	< 0.001 UJ	--	< 0.00116 U	< 0.00122 U
1,1-Dichloropropene	mg/kg			--	--	< 0.00105 UJ	--	< 0.00133 U	--	< 0.001 UJ	--	< 0.00116 U	< 0.00122 U
1,2,3-Trichlorobenzene	mg/kg	64	SL-1	--	--	< 0.00524 UJ	--	< 0.00665 U	--	< 0.00499 UJ	--	< 0.0058 U	< 0.00609 U
1,2,3-Trichloropropane	mg/kg	0.0063	SL-1	--	--	< 0.00209 UJ	--	< 0.00266 U	--	< 0.00199 UJ	--	< 0.00232 U	< 0.00243 U
1,2,4-Trichlorobenzene	mg/kg	0.0014	SL-3	--	--	< 0.00524 UJ	--	< 0.00665 U	--	< 0.00499 UJ	--	< 0.0058 U	< 0.00609 U
1,2,4-Trimethylbenzene	mg/kg	800	SL-1	--	--	< 0.00105 UJ	--	< 0.00133 U	--	< 0.001 UJ	--	< 0.00116 U	< 0.00122 U
1,2-Dibromo-3-chloropropane	mg/kg	0.23	SL-1	--	--	< 0.00524 UJ	--	< 0.00665 U	--	< 0.00499 UJ	--	< 0.0058 U	< 0.00609 U
1,2-Dibromoethane (EDB)	mg/kg	0.5	SL-1	--	--	< 0.00105 UJ	--	< 0.00133 U	--	< 0.001 UJ	--	< 0.00116 U	< 0.00122 U
1,2-Dichlorobenzene	mg/kg	0.035	SL-8	--	--	**0.0123 J**	--	< 0.00133 U	--	< 0.001 UJ	--	< 0.00116 U	< 0.00122 U
1,2-Dichloroethane (EDC)	mg/kg	0.35	SL-3	--	--	< 0.00105 UJ	--	< 0.00133 U	--	< 0.001 UJ	--	< 0.00116 U	< 0.00122 U
1,2-Dichloropropane	mg/kg	0.016	SL-3	--	--	< 0.00105 UJ	--	< 0.00133 U	--	< 0.001 UJ	--	< 0.00116 U	< 0.00122 U
1,3,5-Trimethylbenzene	mg/kg	800	SL-1	--	--	< 0.00105 UJ	--	< 0.00133 U	--	< 0.001 UJ	--	< 0.00116 U	< 0.00122 U
1,3-Dichlorobenzene	mg/kg	0.023	SL-3	--	--	< 0.00105 UJ	--	< 0.00133 U	--	< 0.001 UJ	--	< 0.00116 U	< 0.00122 U
1,3-Dichloropropane	mg/kg	0.0066	SL-3	--	--	< 0.00105 UJ	--	< 0.00133 U	--	< 0.001 UJ	--	< 0.00116 U	< 0.00122 U
1,4-Dichloro-2-Butene	mg/kg			--	--	< 0.00524 UJ	--	< 0.00665 U	--	< 0.00499 UJ	--	< 0.0058 U	< 0.00609 U
1,4-Dichlorobenzene	mg/kg	0.11	SL-8	--	--	**0.0204 J**	--	< 0.00133 U	--	< 0.001 UJ	--	< 0.00116 U	< 0.00122 U
2,2-Dichloropropane	mg/kg			--	--	< 0.00105 UJ	--	< 0.00133 U	--	< 0.001 UJ	--	< 0.00116 U	< 0.00122 U
2-Butanone	mg/kg	350	SL-9	--	--	< 0.00524 UJ	--	< 0.00665 U	--	< 0.00499 UJ	--	**0.00536 J**	< 0.00609 U
2-Chloroethyl Vinyl Ether	mg/kg			--	--	< 0.00524 UJ	--	< 0.00665 UJ	--	< 0.00499 UJ	--	< 0.0058 UJ	< 0.00609 UJ
2-Chlorotoluene	mg/kg	1600	SL-1	--	--	< 0.00105 UJ	--	< 0.00133 U	--	< 0.001 UJ	--	< 0.00116 U	< 0.00122 U
2-Hexanone	mg/kg	400	SL-1	--	--	< 0.00524 UJ	--	< 0.00665 U	--	< 0.00499 UJ	--	< 0.0058 U	< 0.00609 U
2-Pentanone	mg/kg			--	--	< 0.00524 UJ	--	< 0.00665 U	--	< 0.00499 UJ	--	< 0.0058 UJ	< 0.00609 UJ
4-Chlorotoluene	mg/kg	1600	SL-1	--	--	< 0.00105 UJ	--	< 0.00133 U	--	< 0.001 UJ	--	< 0.00116 U	< 0.00122 U
4-Methyl-2-pentanone	mg/kg	6400	SL-1	--	--	< 0.00524 UJ	--	< 0.00665 U	--	< 0.00499 UJ	--	< 0.0058 U	< 0.00609 U
Acetone	mg/kg	1.2	SL-9	--	--	**0.0115 J**	--	**0.133**	--	< 0.00997 UJ	--	**0.115 J**	**0.0845 J**
Acrolein	mg/kg	0.0044	SL-3	--	--	< 0.00524 UJ	--	< 0.00665 U	--	< 0.00499 UJ	--	< 0.0058 U	< 0.00609 U
Acrylonitrile	mg/kg	0.00012	SL-3	--	--	< 0.00524 UJ	--	< 0.00665 UJ	--	< 0.00499 UJ	--	< 0.0058 U	< 0.00609 U
Bromobenzene	mg/kg	640	SL-1	--	--	< 0.00105 UJ	--	< 0.00133 U	--	< 0.001 UJ	--	< 0.00116 U	< 0.00122 U
Bromochloromethane	mg/kg			--	--	< 0.00105 UJ	--	< 0.00133 U	--	< 0.001 UJ	--	< 0.00116 U	< 0.00122 U
Bromodichloromethane	mg/kg	0.013	SL-3	--	--	< 0.00105 UJ	--	< 0.00133 U	--	< 0.001 UJ	--	< 0.00116 U	< 0.00122 U
Bromoform	mg/kg	0.078	SL-3	--	--	< 0.00105 UJ	--	< 0.00133 U	--	< 0.001 UJ	--	< 0.00116 U	< 0.00122 U
Bromomethane	mg/kg	0.24	SL-9	--	--	< 0.00105 UJ	--	< 0.00133 U	--	< 0.001 UJ	--	< 0.00116 U	< 0.00122 U
Carbon Disulfide	mg/kg	0.81	SL-9	--	--	< 0.00105 UJ	--	< 0.00133 U	--	< 0.001 UJ	--	< 0.00116 U	< 0.00122 U
Carbon Tetrachloride	mg/kg	0.0029	SL-3	--	--	< 0.00105 UJ	--	< 0.00133 U	--	< 0.001 UJ	--	< 0.00116 U	< 0.00122 U
Chlorobenzene	mg/kg	1.7	SL-3	--	--	< 0.00105 UJ	--	< 0.00133 U	--	< 0.001 UJ	--	< 0.00116 U	< 0.00122 U
Chloroethane	mg/kg			--	--	< 0.00209 UJ	--	< 0.00266 U	--	< 0.00199 UJ	--	< 0.00232 U	< 0.00243 U
Chloroform	mg/kg	0.81	SL-3	--	--	< 0.00105 UJ	--	< 0.00133 U	--	< 0.001 UJ	--	< 0.00116 U	< 0.00122 U
Chloromethane	mg/kg			--	--	< 0.00105 UJ	--	< 0.00133 U	--	< 0.001 UJ	--	< 0.00116 U	< 0.00122 U
cis-1,2-Dichloroethene (DCE)	mg/kg	24	SL-9	--	--	**0.00158 J**	--	< 0.00133 U	--	< 0.001 UJ	--	< 0.00116 U	< 0.00122 U
cis-1,3-Dichloropropene	mg/kg	0.0056	SL-3	--	--	< 0.00105 UJ	--	< 0.00133 U	--	< 0.001 UJ	--	< 0.00116 U	< 0.00122 U
Dibromochloromethane	mg/kg	0.01	SL-3	--	--	< 0.00105 UJ	--	< 0.00133 U	--	< 0.001 UJ	--	< 0.00116 U	< 0.00122 U
Dibromomethane	mg/kg	800	SL-1	--	--	< 0.00105 UJ	--	< 0.00133 U	--	< 0.001 UJ	--	< 0.00116 U	< 0.00122 U
Dichlorodifluoromethane	mg/kg	16000	SL-1	--	--	< 0.00105 UJ	--	< 0.00133 U	--	< 0.001 UJ	--	< 0.00116 U	< 0.00122 U
Isopropylbenzene	mg/kg	8000	SL-1	--	--	< 0.00105 UJ	--	< 0.00133 U	--	< 0.001 UJ	--	< 0.00116 U	< 0.00122 U
m,p-Xylenes	mg/kg			--	--	< 0.00209 UJ	--	< 0.00266 U	--	< 0.00199 UJ	--	< 0.00232 U	< 0.00243 U
Methyl tert-butyl ether (MTBE)	mg/kg	560	SL-1	--	--	< 0.00105 UJ	--	< 0.00133 U	--	< 0.001 UJ	--	< 0.00116 U	< 0.00122 U
Methylene Chloride	mg/kg	0.43	SL-3	--	--	< 0.00524 UJ	--	< 0.00665 U	--	< 0.00499 UJ	--	**0.0153**	**0.0264**
Methyliodide	mg/kg			--	--	< 0.00105 UJ	--	< 0.00133 U	--	< 0.001 UJ	--	< 0.00116 U	< 0.00122 U
n-Butylbenzene	mg/kg	4000	SL-1	--	--	< 0.00105 UJ	--	< 0.00133 U	--	< 0.001 UJ	--	< 0.00116 U	< 0.00122 U
n-Hexane	mg/kg	4800	SL-1	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	8000	SL-1	--	--	< 0.00105 UJ	--	< 0.00133 U	--	< 0.001 UJ	--	< 0.00116 U	< 0.00122 U
o-Xylene	mg/kg			--	--	< 0.00105 UJ	--	< 0.00133 U	--	< 0.001 UJ	--	< 0.00116 U	< 0.00122 U
p-Isopropyltoluene	mg/kg	320	SL-1	--	--	< 0.00105 UJ	--	< 0.00133 U	--	< 0.001 UJ	--	< 0.00116 U	< 0.00122 U
sec-Butylbenzene	mg/kg	8000	SL-1	--	--	< 0.00105 UJ	--	< 0.00133 U	--	< 0.001 UJ	--	< 0.00116 U	< 0.00122 U
Styrene	mg/kg	4.7	SL-9	--	--	< 0.00105 UJ	--	< 0.00133 U	--	< 0.001 UJ	--	< 0.00116 U	< 0.00122 U
tert-Butylbenzene	mg/kg	8000	SL-1	--	--	< 0.00105 UJ	--	< 0.00133 U	--	< 0.001 UJ	--	< 0.00116 U	< 0.00122 U
Tetrachloroethene (PCE)	mg/kg	0.029	SL-3	--	--	**0.0213 J**	--	< 0.00133 U	--	**0.00085 J**	--	**0.00049 J**	< 0.00122 U
trans-1,2-Dichloroethene	mg/kg	0.78	SL-3	--	--	< 0.00105 UJ	--	< 0.00133 U	--	< 0.001 UJ	--	< 0.00116 U	< 0.00122 U
trans-1,3-Dichloropropene	mg/kg	0.0056	SL-3	--	--	< 0.00105 UJ	--	< 0.00133 U	--	< 0.001 UJ	--	< 0.00116 U	< 0.00122 U
Trichloroethene (TCE)	mg/kg	0.0044	SL-3	--	--	**0.0005 J**	--	< 0.00133 U	--	< 0.001 UJ	--	< 0.00116 U	< 0.00122 U
Trichlorofluoromethane	mg/kg	24000	SL-1	--	--	< 0.00209 UJ	--	< 0.00266 U	--	< 0.00199 UJ	--	< 0.00232 U	< 0.00243 U
Vinyl Acetate	mg/kg	80000	SL-1	--	--	< 0.00524 UJ	--	< 0.00665 U	--	< 0.00499 UJ	--	< 0.0058 U	< 0.00609 U
Vinyl Chloride	mg/kg	0.0011	SL-3	--	--	< 0.00105 UJ	--	< 0.00133 U	--	< 0.001 UJ	--	< 0.00116 U	< 0.00122 U
Conventionals														
Total Organic Carbon	%			--	--	**2.98**	--	**0.34**	--	**0.75**	--	**0.25**	**0.43**
Total Solids	%			--	--	**87.4**	--	**93.8**	--	**89.8**	--	**93.0**	**76.2**

Table I.3.B. Vadose Soil Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL

Location				SB-30		SB-31		SB-32		SB-33	
Date				03/01/21	03/01/21	03/01/21	03/01/21	03/08/21	03/08/21	03/03/21	03/03/21
Sample				SB-30-0-1	SB-30A-3-5	SB-31-0-1	SB-31A-3-5	SB-32-0-1	SB-32-4-5	SB-33-0-1	SB-33-3-5
Depth				0 - 1 ft	3 - 5 ft	0 - 1 ft	3 - 5 ft	0 - 1 ft	4 - 5 ft	0 - 1 ft	3 - 5 ft
Geologic Unit				Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill
Analyte	Unit	Prelmiinary RI SL	Basis of SL								
Metals, Total											
Arsenic	mg/kg	7.3	SL-10	**2.9 J**	**6.01 J**	**6.42 J**	**3.38 J**	**7.47**	**3.73**	**4.09**	**1.99**
Barium	mg/kg	250	SL-10	--	--	--	--	--	--	--	--
Cadmium	mg/kg	0.77	SL-10	**0.12**	**0.24**	**0.08 J**	**0.14**	**0.49**	**0.06 J**	**0.46**	**0.05 J**
Chromium	mg/kg	67	SL-9	**25.1**	**9.83**	**16.2**	**17.2**	**12.2 J**	**12.7**	**9.99**	**11.6**
Copper	mg/kg	36	SL-10	**19.9 J**	**19.5 J**	**37.4 J**	**19.7 J**	**50.2 J**	**25.2**	**51.5**	**11.8**
Lead	mg/kg	120	SL-9	**3.75 J**	**20.8 J**	**6.25 J**	**27.2 J**	**30.7 J**	**20.6**	**41.3 J**	**2.54 J**
Mercury	mg/kg	0.07	SL-10	**0.278**	**0.0234 J**	**0.0268**	**0.0194 J**	**0.0482**	**0.0334**	**0.0213 J**	**0.00687 J**
Nickel	mg/kg	48	SL-10	**38.5**	**10**	**22.9**	**20.2**	**13.7 J**	**11.4**	**13.2**	**8.49**
Selenium	mg/kg	0.78	SL-10	--	--	--	--	--	--	--	--
Silver	mg/kg	0.61	SL-10	--	--	--	--	--	--	--	--
Zinc	mg/kg	100	SL-3	**37.3**	**41.8**	**40.9**	**117**	**73.8 J**	**81.5**	**83.7**	**27.5**
Butyl Tins											
Dibutyltin Ion	mg/kg			--	--	--	--	**0.0472 J**	< 0.00572 U	< 0.00575 U	< 0.00572 U
Monobutyltin	mg/kg			--	--	--	--	**0.0308 J**	< 0.00404 U	< 0.00406 U	< 0.00404 U
Tetrabutyltin	mg/kg			--	--	--	--	< 0.005 U	< 0.00495 U	< 0.00497 U	< 0.00495 U
Tributyltin Ion	mg/kg	0.0021	SL-8	--	--	--	--	**0.0667 J**	< 0.00382 U	**0.000964 J**	**0.00567**
Polychlorinated Biphenyl (PCB) Aroclors											
Total PCB Aroclors (ND = 0)	mg/kg	1.10E-05	SL-3	**0.0033 J**	**0.0022 J**	**0.0291**	**0.0019 J**	**0.746 J**	**0.024**	**0.738**	**0.0348**
Polychlorinated Biphenyl (PCB) Congeners											
Total PCB Congeners (ND = 0)	mg/kg	1.10E-05	SL-3	--	--	**0.0226 J**	--	**0.277 J**	--	--	--
Total PCB TEQ (ND = 0)	mg/kg	6.90E-09	SL-3	--	--	**6.98E-07 J**	--	**4.19E-06**	--	--	--
Dioxins/Furans											
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	5.20E-06	SL-10	--	--	--	--	**2.56E-05**	--	--	--
2,3,7,8-TCDD	mg/kg	5.20E-06	SL-10	--	--	--	--	< 1.13E-06 U	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)											
1-Methylnaphthalene	mg/kg	20	SL-1	< 0.00498 U	< 0.00498 U	< 0.00499 U	< 0.005 U	**0.00553**	< 0.005 U	< 0.015 U	< 0.00499 U
2-Methylnaphthalene	mg/kg	0.67	SL-8	< 0.00498 U	< 0.00594 U	< 0.00499 U	< 0.005 U	**0.0114**	< 0.005 U	< 0.015 U	< 0.00499 U
Acenaphthene	mg/kg	0.5	SL-8	< 0.00498 U	**0.0115**	< 0.00499 U	< 0.005 U	**0.00183 J**	< 0.005 U	**0.0031 J**	< 0.00499 U
Acenaphthylene	mg/kg	1.3	SL-8	< 0.00498 U	**0.0029 J**	< 0.00499 U	< 0.005 U	**0.00299 J**	< 0.005 U	< 0.015 U	**0.00122 J**
Anthracene	mg/kg	0.96	SL-8	**0.00093 J**	**0.0138**	**0.00129 J**	**0.00125 J**	**0.00241 J**	< 0.005 U	**0.00265 J**	< 0.00499 U
Benzo(g,h,i)perylene	mg/kg	0.67	SL-8	**0.0129**	**0.0759**	**0.00805**	**0.00968**	**0.0236 J**	< 0.005 U	**0.0422**	**0.0137**
Fluoranthene	mg/kg	1.7	SL-8	**0.00658**	**0.097**	**0.0023 J**	**0.00937**	**0.0201 J**	**0.0007 J**	**0.0207**	**0.00457 J**
Fluorene	mg/kg	0.54	SL-8	< 0.00498 U	**0.00633**	< 0.00499 U	< 0.005 U	**0.00276 J**	< 0.005 U	**0.00369 J**	< 0.00499 U
Naphthalene	mg/kg	0.039	SL-3	< 0.00498 U	**0.00799**	< 0.00499 U	< 0.005 U	**0.00822**	< 0.005 U	< 0.005 U	< 0.00762 U
Phenanthrene	mg/kg	1.5	SL-8	**0.0127**	**0.0665**	**0.0031 J**	**0.00608**	**0.0182 J**	**0.00276 J**	**0.0362**	**0.0136**
Pyrene	mg/kg	2.6	SL-8	**0.0337**	**0.114**	**0.00328 J**	**0.0113**	**0.022**	**0.00097 J**	**0.0226**	**0.00631**
Benz(a)anthracene	mg/kg	0.73	SL-9	**0.00556**	**0.0543**	**0.00134 J**	**0.00395 J**	**0.00936 J**	< 0.005 U	**0.0127 J**	**0.00446 J**
Benzo(a)pyrene	mg/kg	0.00031	SL-3	**0.00518**	**0.0831**	**0.00217 J**	**0.00643**	**0.0128 J**	< 0.005 U	**0.0207**	**0.00562**
Benzo(b)fluoranthene	mg/kg	44	SL-9	**0.00737**	**0.0718**	**0.00336 J**	**0.00611**	**0.0183 J**	< 0.005 U	**0.0325**	**0.0083**
Benzo(j)fluoranthene	mg/kg			**0.0028 J**	**0.0402**	**0.00135 J**	**0.00371 J**	**0.00988 J**	< 0.005 U	**0.00922 J**	**0.00217 J**
Benzo(j,k)fluoranthene	mg/kg			--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	mg/kg	71	SL-9	**0.00217 J**	**0.0372**	**0.0017 J**	**0.0031 J**	**0.00856 J**	< 0.005 U	**0.00912 J**	**0.00209 J**
Chrysene	mg/kg	1.4	SL-8	**0.0137**	**0.067**	**0.003 J**	**0.00577**	**0.0185 J**	< 0.005 U	**0.0667**	**0.022**
Dibenzo(a,h)anthracene	mg/kg	0.23	SL-8	**0.00205 J**	**0.013**	**0.00123 J**	**0.00149 J**	**0.00365 J**	< 0.005 U	**0.00715 J**	**0.00173 J**
Indeno(1,2,3-cd)pyrene	mg/kg	0.6	SL-8	**0.00287 J**	**0.0544**	**0.00319 J**	**0.00617**	**0.0131 J**	< 0.005 U	**0.0165**	**0.00324 J**
Total Benzofluoranthenes	mg/kg	1.1	SL-9	**0.012**	**0.148**	**0.00631 J**	**0.0132**	**0.0391 J**	< 0.01 U	**0.0508**	**0.0161**
Total HPAHs (ND = 1/2 RDL)	mg/kg	1.1	SL-9	**0.0949 J**	**0.708**	**0.031 J**	**0.0671 J**	**0.16 J**	**0.0242 J**	**0.26 J**	**0.0742 J**
Total LPAHs (ND = 1/2 RDL)	mg/kg	5.2	SL-8	**0.0236 J**	**0.109 J**	**0.0144 J**	**0.0173 J**	**0.0364 J**	**0.0153 J**	**0.0556 J**	**0.0261 J**
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	0.00031	SL-3	**0.00732 J**	**0.107**	**0.00328 J**	**0.00857 J**	**0.0183 J**	< 0.00377 U	**0.0292 J**	**0.00782 J**
Semivolatile Organic Compounds (SVOCs)											
1,2-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	mg/kg	0.00068	SL-3	--	--	--	--	--	--	--	--
1,3-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--
1,4-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	mg/kg	2400	SL-1	--	--	--	--	--	--	--	--
2,3,5,6-Tetrachlorophenol	mg/kg			--	--	--	--	--	--	--	--
2,3-Dichloroaniline	mg/kg			--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	mg/kg	22	SL-3	--	--	--	--	< 0.0994 U	< 0.1 U	< 0.0997 U	< 0.0998 U
2,4,6-Trichlorophenol	mg/kg	0.0033	SL-3	--	--	--	--	< 0.0994 U	< 0.1 U	< 0.0997 U	< 0.0998 U
2,4-Dichlorophenol	mg/kg	0.069	SL-3	--	--	--	--	< 0.0994 U	< 0.1 U	< 0.0997 U	< 0.0998 U
2,4-Dimethylphenol	mg/kg	0.029	SL-8	--	--	--	--	< 0.0994 U	< 0.1 U	< 0.0997 U	< 0.0998 U
2,4-Dinitrophenol	mg/kg	0.061	SL-9	--	--	--	--	< 0.199 UJ	< 0.2 UJ	< 0.199 UJ	< 0.2 UJ
2,4-Dinitrotoluene	mg/kg	0.0028	SL-3	--	--	--	--	< 0.0994 U	< 0.1 U	< 0.0997 U	< 0.0998 U
2,6-Dinitrotoluene	mg/kg	0.67	SL-1	--	--	--	--	< 0.0994 U	< 0.1 U	< 0.0997 U	< 0.0998 U
2-Chloronaphthalene	mg/kg	5.4	SL-3	--	--	--	--	< 0.0199 U	< 0.02 U	< 0.0199 U	< 0.02 U
2-Chlorophenol	mg/kg	0.2	SL-3	--	--	--	--	< 0.0199 U	< 0.02 U	< 0.0199 U	< 0.02 U
2-Methylphenol	mg/kg	0.063	SL-8	--	--	--	--	< 0.0199 U	< 0.02 U	< 0.0199 U	< 0.02 U
2-Nitroaniline	mg/kg	800	SL-1	--	--	--	--	< 0.0994 U	< 0.1 U	< 0.0997 U	< 0.0998 U
2-Nitrophenol	mg/kg			--	--	--	--	< 0.0199 U	< 0.02 U	< 0.0199 U	< 0.02 U
3 & 4 Methylphenol	mg/kg			--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	mg/kg	2.20E-04	SL-3	--	--	--	--	< 0.0994 U	< 0.1 U	< 0.0997 U	< 0.0998 U
3-Nitroaniline	mg/kg			--	--	--	--	< 0.0994 U	< 0.1 U	< 0.0997 U	< 0.0998 U
4,6-Dinitro-2-methylphenol	mg/kg	0.13	SL-3	--	--	--	--	< 0.199 U	< 0.2 U	< 0.199 U	< 0.2 U
4-Bromophenyl phenyl ether	mg/kg			--	--	--	--	< 0.0199 U	< 0.02 U	< 0.0199 U	< 0.02 U
4-Chloro-3-methylphenol	mg/kg	0.5	SL-3	--	--	--	--	< 0.0994 U	< 0.1 U	< 0.0997 U	< 0.0998 U
4-Chloroaniline	mg/kg	5	SL-1	--	--	--	--	< 0.0994 U	< 0.1 U	< 0.0997 U	< 0.0998 U
4-Chlorophenyl phenyl ether	mg/kg			--	--	--	--	< 0.0199 U	< 0.02 U	< 0.0199 U	< 0.02 U
4-Methylphenol	mg/kg	0.67	SL-8	--	--	--	--	< 0.0199 UJ	< 0.02 UJ	< 0.0199 U	< 0.02 U
4-Nitroaniline	mg/kg	22	SL-9	--	--	--	--	< 0.0994 U	< 0.1 U	< 0.0997 U	< 0.0998 U
4-Nitrophenol	mg/kg			--	--	--	--	< 0.0994 U	< 0.1 U	< 0.0997 U	< 0.0998 U
Aniline	mg/kg	180	SL-1	--	--	--	--	--	--	--	--
Benzoic acid	mg/kg	0.65	SL-8	--	--	--	--	**0.0623 J**	< 0.2 UJ	< 0.199 U	< 0.2 U
Benzyl alcohol	mg/kg	0.057	SL-8	--	--	--	--	< 0.0199 U	< 0.02 U	< 0.0199 U	< 0.02 U
Benzyl butyl phthalate	mg/kg	0.0036	SL-3	--	--	--	--	**0.0412**	< 0.02 U	**0.0096 J**	< 0.02 U
Bis(2-chloro-1-methylethyl) ether	mg/kg	0.59	SL-3	--	--	--	--	**0.0234**	< 0.02 U	< 0.0199 U	< 0.02 U
Bis(2-chloroethoxy)methane	mg/kg	240	SL-1	--	--	--	--	< 0.0199 U	< 0.02 U	< 0.0199 U	< 0.02 U
Bis(2-chloroethyl) ether	mg/kg	0.00033	SL-3	--	--	--	--	< 0.0199 U	< 0.02 U	< 0.0199 U	< 0.02 U
bis(2-Chloroisopropyl)ether	mg/kg			--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) adipate	mg/kg	830	SL-1	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate	mg/kg	0.02	SL-9	--	--	--	--	**0.255 J**	< 0.05 U	**0.067**	< 0.0499 U
Carbazole	mg/kg	79	SL-9	--	--	--	--	**0.0126 J**	< 0.02 U	< 0.0199 U	< 0.02 U
Dibenzofuran	mg/kg	0.54	SL-8	< 0.00498 U	**0.00516**	< 0.00499 U	< 0.005 U	**0.0023 J**	< 0.005 U	< 0.015 U	< 0.00499 U
Diethyl phthalate	mg/kg	0.2	SL-8	--	--	--	--	< 0.0199 U	< 0.02 U	< 0.0199 U	**0.0471**
Dimethyl phthalate	mg/kg	0.071	SL-8	--	--	--	--	**0.254 J**	< 0.02 U	< 0.0199 U	< 0.02 U
Di-n-butyl phthalate	mg/kg	0.011	SL-9	--	--	--	--	**0.0448**	< 0.02 U	**0.0224**	< 0.02 U
Di-n-octyl phthalate	mg/kg	0.91	SL-9	--	--	--	--	< 0.0199 U	< 0.02 U	< 0.0199 U	< 0.02 U
Hexachlorobenzene	mg/kg	8.00E-06	SL-3	--	--	--	--	< 0.0199 U	< 0.02 U	< 0.0199 U	< 0.02 U
Hexachlorobutadiene	mg/kg	0.00021	SL-3	< 0.00511 U	< 0.00556 U	< 0.00658 U	< 0.00736 U	< 0.00858 U	< 0.00714 U	< 0.005 U	< 0.00762 U
Hexachlorocyclopentadiene	mg/kg	0.032	SL-3	--	--	--	--	< 0.0994 UJ	< 0.1 UJ	< 0.0997 UJ	< 0.0998 UJ
Hexachloroethane	mg/kg	0.00016	SL-3	--	--	--	--	< 0.0199 U	< 0.02 U	< 0.0199 U	< 0.02 U
Isophorone	mg/kg	0.58	SL-3	--	--	--	--	< 0.0199 U	< 0.02 U	< 0.0199 U	< 0.02 U
Nitrobenzene	mg/kg	0.64	SL-3	--	--	--	--	< 0.0199 U	< 0.02 U	< 0.0199 U	< 0.02 U
N-Nitrosodimethylamine	mg/kg	0.0015	SL-3	--	--	--	--	--	--	--	--
N-Nitroso-di-n-propylamine	mg/kg	0.00055	SL-3	--	--	--	--	< 0.0199 U	< 0.02 U	< 0.0199 U	< 0.02 U
N-Nitrosodiphenylamine	mg/kg	0.028	SL-8	--	--	--	--	< 0.0199 U	< 0.02 U	< 0.0199 U	< 0.02 U
Pentachlorophenol	mg/kg	3.20E-05	SL-3	--	--	--	--	< 0.0994 UJ	< 0.1 UJ	< 0.0997 U	< 0.0998 U
Phenol	mg/kg	0.42	SL-8	--	--	--	--	< 0.0199 U	< 0.02 U	< 0.0199 U	< 0.02 U
Pyridine	mg/kg	80	SL-1	--	--	--	--	--	--	--	--

Table I.3.B. Vadose Soil Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL

Location				SB-30		SB-31		SB-32		SB-33	
Date				03/01/21	03/01/21	03/01/21	03/01/21	03/08/21	03/08/21	03/03/21	03/03/21
Sample				SB-30-0-1	SB-30A-3-5	SB-31-0-1	SB-31A-3-5	SB-32-0-1	SB-32-4-5	SB-33-0-1	SB-33-3-5
Depth				0 - 1 ft	3 - 5 ft	0 - 1 ft	3 - 5 ft	0 - 1 ft	4 - 5 ft	0 - 1 ft	3 - 5 ft
Geologic Unit				Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill
Analyte	Unit	Prelmiinary RI SL	Basis of SL								
Pesticides											
2,4'-DDD	mg/kg			--	--	--	--	--	--	--	--
2,4'-DDE	mg/kg			--	--	--	--	--	--	--	--
2,4'-DDT	mg/kg			--	--	--	--	--	--	--	--
4,4'-DDD	mg/kg	7.30E-06	SL-3	--	--	--	--	--	--	--	--
4,4'-DDE	mg/kg	1.50E-06	SL-3	--	--	--	--	--	--	--	--
4,4'-DDT	mg/kg	1.60E-05	SL-3	--	--	--	--	--	--	--	--
Aldrin	mg/kg	4.00E-08	SL-3	--	--	--	--	--	--	--	--
Alpha-BHC	mg/kg	1.90E-06	SL-3	--	--	--	--	--	--	--	--
Beta-BHC	mg/kg	6.60E-05	SL-3	--	--	--	--	--	--	--	--
Chlordane	mg/kg	2.30E-05	SL-3	--	--	--	--	--	--	--	--
cis-Chlordane	mg/kg	0.0001	SL-8	--	--	--	--	--	--	--	--
cis-Nonachlor	mg/kg			--	--	--	--	--	--	--	--
Delta-BHC	mg/kg	0.0048	SL-1	--	--	--	--	--	--	--	--
Dieldrin	mg/kg	3.60E-08	SL-3	--	--	--	--	--	--	--	--
Endosulfan I	mg/kg	0.0012	SL-3	--	--	--	--	--	--	--	--
Endosulfan II	mg/kg	0.0012	SL-3	--	--	--	--	--	--	--	--
Endosulfan Sulfate	mg/kg	2	SL-3	--	--	--	--	--	--	--	--
Endrin	mg/kg	0.00044	SL-3	--	--	--	--	--	--	--	--
Endrin Aldehyde	mg/kg	0.0024	SL-3	--	--	--	--	--	--	--	--
Endrin ketone	mg/kg			--	--	--	--	--	--	--	--
Heptachlor	mg/kg	6.60E-08	SL-3	--	--	--	--	--	--	--	--
Heptachlor Epoxide	mg/kg	4.90E-07	SL-3	--	--	--	--	--	--	--	--
Lindane	mg/kg	0.0039	SL-3	--	--	--	--	--	--	--	--
Methoxychlor	mg/kg	0.032	SL-3	--	--	--	--	--	--	--	--
Mirex	mg/kg	0.0071	SL-3	--	--	--	--	--	--	--	--
Oxychlordane	mg/kg			--	--	--	--	--	--	--	--
Toxaphene	mg/kg	6.10E-05	SL-3	--	--	--	--	--	--	--	--
trans-Chlordane	mg/kg	0.0001	SL-8	--	--	--	--	--	--	--	--
trans-Nonachlor	mg/kg			--	--	--	--	--	--	--	--
Total Petroleum Hydrocarbons (TPH)											
Gasoline Range Organics	mg/kg	30	SL-3	< 5 U	< 6.37 U	< 7.76 U	< 9.99 U	**7.88**	**49.8**	**48.6**	**15.5**
Diesel Range Organics	mg/kg	2000	SL-9	< 54.7 U	< 55.1 U	< 52.5 U	< 54.8 U	< 57.7 U	< 60.6 U	< 58.6 U	< 63.9 U
Motor Oil Range Organics	mg/kg	2000	SL-9	**212**	< 110 U	< 105 U	< 110 U	**178**	< 121 U	**327**	**340**
Diesel and Oil Extended Range Organics	mg/kg	2000	SL-9	**212**	< 110 U	< 105 U	< 110 U	**178**	< 121 U	**327**	**340**
Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)											
Benzene	mg/kg	0.0088	SL-3	< 0.00102 U	**0.00037 J**	< 0.00132 U	< 0.00147 U	< 0.00172 UJ	< 0.00143 U	**0.00035 J**	< 0.00152 U
Toluene	mg/kg	0.72	SL-3	< 0.00102 U	< 0.00111 U	**0.0004 J**	< 0.00147 U	**0.0007 J**	< 0.00143 U	**0.00049 J**	< 0.00152 U
Ethylbenzene	mg/kg	0.18	SL-3	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U
Total Xylenes	mg/kg	0.94	SL-3	< 0.00204 U	< 0.00222 U	< 0.00263 U	< 0.00294 U	< 0.00343 U	< 0.00285 U	< 0.002 U	< 0.00305 U
Volatile Organic Compounds (VOCs)											
1,1,1,2-Tetrachloroethane	mg/kg	38	SL-1	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U
1,1,1-Trichloroethane	mg/kg	370	SL-3	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U
1,1,2 - Trichlorotrifluoroethane	mg/kg	2400000	SL-1	< 0.00204 U	< 0.00222 U	< 0.00263 U	< 0.00294 U	< 0.00343 U	< 0.00285 U	< 0.002 U	< 0.00305 U
1,1,2,2-Tetrachloroethane	mg/kg	0.0017	SL-3	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U
1,1,2-Trichloroethane	mg/kg	0.005	SL-3	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U
1,1-Dichloroethane	mg/kg	180	SL-1	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U
1,1-Dichloroethene	mg/kg	11	SL-9	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U
1,1-Dichloropropene	mg/kg			< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U
1,2,3-Trichlorobenzene	mg/kg	64	SL-1	< 0.00511 U	< 0.00556 U	< 0.00658 U	< 0.00736 U	< 0.00858 U	< 0.00714 U	< 0.005 U	< 0.00762 U
1,2,3-Trichloropropane	mg/kg	0.0063	SL-1	< 0.00204 U	< 0.00222 U	< 0.00263 U	< 0.00294 U	< 0.00343 U	< 0.00285 U	< 0.002 U	< 0.00305 U
1,2,4-Trichlorobenzene	mg/kg	0.0014	SL-3	< 0.00511 U	< 0.00556 U	< 0.00658 U	< 0.00736 U	< 0.00858 U	< 0.00714 U	< 0.005 U	< 0.00762 U
1,2,4-Trimethylbenzene	mg/kg	800	SL-1	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U
1,2-Dibromo-3-chloropropane	mg/kg	0.23	SL-1	< 0.00511 U	< 0.00556 U	< 0.00658 U	< 0.00736 U	< 0.00858 U	< 0.00714 U	< 0.005 U	< 0.00762 U
1,2-Dibromoethane (EDB)	mg/kg	0.5	SL-1	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U
1,2-Dichlorobenzene	mg/kg	0.035	SL-8	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U
1,2-Dichloroethane (EDC)	mg/kg	0.35	SL-3	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U
1,2-Dichloropropane	mg/kg	0.016	SL-3	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U
1,3,5-Trimethylbenzene	mg/kg	800	SL-1	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U
1,3-Dichlorobenzene	mg/kg	0.023	SL-3	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U
1,3-Dichloropropane	mg/kg	0.0066	SL-3	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U
1,4-Dichloro-2-Butene	mg/kg			< 0.00511 U	< 0.00556 U	< 0.00658 U	< 0.00736 U	< 0.00858 U	< 0.00714 U	< 0.005 U	< 0.00762 U
1,4-Dichlorobenzene	mg/kg	0.11	SL-8	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U
2,2-Dichloropropane	mg/kg			< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U
2-Butanone	mg/kg	350	SL-9	< 0.00511 U	< 0.00556 U	< 0.00658 U	< 0.00736 U	< 0.00858 U	< 0.00714 U	**0.00933**	< 0.00762 U
2-Chloroethyl Vinyl Ether	mg/kg			< 0.00511 UJ	< 0.00556 UJ	< 0.00658 UJ	< 0.00736 UJ	< 0.00858 U	< 0.00714 U	< 0.005 U	< 0.00762 U
2-Chlorotoluene	mg/kg	1600	SL-1	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U
2-Hexanone	mg/kg	400	SL-1	< 0.00511 U	< 0.00556 U	< 0.00658 U	< 0.00736 U	< 0.00858 U	< 0.00714 U	< 0.005 U	< 0.00762 U
2-Pentanone	mg/kg			< 0.00511 UJ	< 0.00556 UJ	< 0.00658 UJ	< 0.00736 UJ	< 0.00858 U	< 0.00714 U	< 0.005 U	< 0.00762 U
4-Chlorotoluene	mg/kg	1600	SL-1	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U
4-Methyl-2-pentanone	mg/kg	6400	SL-1	< 0.00511 U	< 0.00556 U	< 0.00658 U	< 0.00736 U	< 0.00858 U	< 0.00714 U	< 0.005 U	< 0.00762 U
Acetone	mg/kg	1.2	SL-9	**0.0426 J**	**0.0525 J**	**0.0956 J**	**0.0883 J**	**0.115**	**0.17**	**0.11**	**0.0447**
Acrolein	mg/kg	0.0044	SL-3	< 0.00511 U	< 0.00556 U	< 0.00658 U	< 0.00736 U	< 0.00858 U	< 0.00714 U	< 0.005 U	< 0.00762 U
Acrylonitrile	mg/kg	0.00012	SL-3	< 0.00511 U	< 0.00556 U	< 0.00658 U	< 0.00736 U	< 0.00858 U	< 0.00714 U	< 0.005 U	< 0.00762 U
Bromobenzene	mg/kg	640	SL-1	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U
Bromochloromethane	mg/kg			< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U
Bromodichloromethane	mg/kg	0.013	SL-3	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U
Bromoform	mg/kg	0.078	SL-3	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U
Bromomethane	mg/kg	0.24	SL-9	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	**0.00151**	< 0.00152 U
Carbon Disulfide	mg/kg	0.81	SL-9	< 0.00102 U	< 0.00111 U	**0.0009 J**	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U
Carbon Tetrachloride	mg/kg	0.0029	SL-3	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U
Chlorobenzene	mg/kg	1.7	SL-3	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U
Chloroethane	mg/kg			< 0.00204 U	< 0.00222 U	< 0.00263 U	< 0.00294 U	< 0.00343 U	< 0.00285 U	< 0.002 U	< 0.00305 U
Chloroform	mg/kg	0.81	SL-3	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U
Chloromethane	mg/kg			< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U
cis-1,2-Dichloroethene (DCE)	mg/kg	24	SL-9	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U
cis-1,3-Dichloropropene	mg/kg	0.0056	SL-3	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U
Dibromochloromethane	mg/kg	0.01	SL-3	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U
Dibromomethane	mg/kg	800	SL-1	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U
Dichlorodifluoromethane	mg/kg	16000	SL-1	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U
Isopropylbenzene	mg/kg	8000	SL-1	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U
m,p-Xylenes	mg/kg			< 0.00204 U	< 0.00222 U	< 0.00263 U	< 0.00294 U	< 0.00343 U	< 0.00285 U	< 0.002 U	< 0.00305 U
Methyl tert-butyl ether (MTBE)	mg/kg	560	SL-1	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U
Methylene Chloride	mg/kg	0.43	SL-3	< 0.00511 U	< 0.00556 U	< 0.00658 U	**0.00682 J**	< 0.00858 U	< 0.00714 U	< 0.005 U	< 0.00762 U
Methyliodide	mg/kg			< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	**0.00165**	< 0.00152 U
n-Butylbenzene	mg/kg	4000	SL-1	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U
n-Hexane	mg/kg	4800	SL-1	--	--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	8000	SL-1	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U
o-Xylene	mg/kg			< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U
p-Isopropyltoluene	mg/kg	320	SL-1	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U
sec-Butylbenzene	mg/kg	8000	SL-1	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U
Styrene	mg/kg	4.7	SL-9	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U
tert-Butylbenzene	mg/kg	8000	SL-1	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U
Tetrachloroethene (PCE)	mg/kg	0.029	SL-3	**0.0181**	**0.187**	**0.0547**	**0.0415**	< 0.00172 U	< 0.00143 U	**0.00257**	**0.00208**
trans-1,2-Dichloroethene	mg/kg	0.78	SL-3	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U
trans-1,3-Dichloropropene	mg/kg	0.0056	SL-3	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U
Trichloroethene (TCE)	mg/kg	0.0044	SL-3	< 0.00102 U	**0.00069 J**	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	**0.00125**	**0.00135 J**
Trichlorofluoromethane	mg/kg	24000	SL-1	< 0.00204 U	< 0.00222 U	< 0.00263 U	< 0.00294 U	< 0.00343 U	< 0.00285 U	< 0.002 U	< 0.00305 U
Vinyl Acetate	mg/kg	80000	SL-1	< 0.00511 U	< 0.00556 U	< 0.00658 U	< 0.00736 U	< 0.00858 U	< 0.00714 U	< 0.005 U	< 0.00762 U
Vinyl Chloride	mg/kg	0.0011	SL-3	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U
Conventionals											
Total Organic Carbon	%			**0.26**	**0.58**	**0.1**	**0.19**	**1.08 J**	**0.22**	**0.09**	**0.07**
Total Solids	%			**81.8**	**89.1**	**93.7**	**86.6**	**86.5**	**82.3**	**92.0**	**79.6**

Table I.3.B. Vadose Soil Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL

Location				SB-34				SB-35		SB-36		
Date				03/01/21	03/23/21	03/01/21	03/23/21	09/12/22	09/12/22	09/12/22	09/12/22	09/12/22
Sample				SB-34-0-1	SB-34R-0-1	SB-34-3-4	SB-34R-3-4	SB-35-0-1	SB-35-3-4	SB-36-0-1	SB-36-0-1-TIG	SB-36-2-3
Depth				0 - 1 ft	0 - 1 ft	3 - 4 ft	3 - 4 ft	0 - 1 ft	3 - 4 ft	0 - 1 ft	0 - 1 ft	2 - 3 ft
Geologic Unit				Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill
Analyte	Unit	Prelmiinary RI SL	Basis of SL									
Metals, Total												
Arsenic	mg/kg	7.3	SL-10	**4.43**	--	**1.87**	--	**2.72**	**1.06**	**4.27**	--	**1.56**
Barium	mg/kg	250	SL-10	--	--	--	--	--	--	--	--	--
Cadmium	mg/kg	0.77	SL-10	**0.62**	--	< 0.1 U	--	**1.83**	< 0.2 U	**5.69**	--	**0.555**
Chromium	mg/kg	67	SL-9	**11.3**	--	**6.93**	--	**43.6**	**8.29**	**87.6**	--	**8.65**
Copper	mg/kg	36	SL-10	**25.5 J**	--	**8.97 J**	--	**85.7**	**9.34**	**40.7**	--	**11.2**
Lead	mg/kg	120	SL-9	**47.7 J**	--	**1.31 J**	--	**502**	**1.22**	**749**	--	**12.3**
Mercury	mg/kg	0.07	SL-10	**0.0093 J**	--	**0.00938 J**	--	**1.2**	**0.036**	**4.3**	--	**0.042**
Nickel	mg/kg	48	SL-10	**14.8**	--	**6.6**	--	**10.5**	**6.69**	**11.8**	--	**6.66**
Selenium	mg/kg	0.78	SL-10	--	--	--	--	--	--	--	--	--
Silver	mg/kg	0.61	SL-10	--	--	--	--	--	--	--	--	--
Zinc	mg/kg	100	SL-3	**106**	--	**17.3**	--	**209**	**19.3**	**459**	--	**89.5**
Butyl Tins												
Dibutyltin Ion	mg/kg			--	--	--	--	**0.0736**	< 0.00577 U	**0.037**	--	< 0.00578 U
Monobutyltin	mg/kg			--	--	--	--	**0.0298**	**0.0024**	**0.0162**	--	< 0.00408 U
Tetrabutyltin	mg/kg			--	--	--	--	< 0.00497 U	< 0.00499 U	< 0.00494 U	--	< 0.005 U
Tributyltin Ion	mg/kg	0.0021	SL-8	--	--	--	--	**0.059 J**	< 0.00385 U	**0.00087 J**	--	< 0.00386 U
Polychlorinated Biphenyl (PCB) Aroclors												
Total PCB Aroclors (ND = 0)	mg/kg	1.10E-05	SL-3	**0.0937**	--	**0.0027 J**	--	--	< 0.004 U	--	--	**0.105**
Polychlorinated Biphenyl (PCB) Congeners												
Total PCB Congeners (ND = 0)	mg/kg	1.10E-05	SL-3	**0.0269 J**	--	--	--	--	--	--	**4.85 J**	--
Total PCB TEQ (ND = 0)	mg/kg	6.90E-09	SL-3	**8.63E-07 J**	--	--	--	--	--	--	**1.62E-04**	--
Dioxins/Furans												
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	5.20E-06	SL-10	--	--	--	--	--	--	--	**2.30E-03**	--
2,3,7,8-TCDD	mg/kg	5.20E-06	SL-10	--	--	--	--	--	--	--	**2.57E-05**	--
Polycyclic Aromatic Hydrocarbons (PAHs)												
1-Methylnaphthalene	mg/kg	20	SL-1	**0.0189**	--	**0.00613**	--	< 0.1 U	< 0.0005 U	**0.039**	--	< 0.005 U
2-Methylnaphthalene	mg/kg	0.67	SL-8	**0.0207**	--	< 0.00456 U	--	< 0.1 U	< 0.0005 U	**0.066**	--	< 0.005 U
Acenaphthene	mg/kg	0.5	SL-8	**0.00564**	--	< 0.00433 U	--	< 0.1 U	< 0.0005 U	< 0.01 U	--	< 0.005 U
Acenaphthylene	mg/kg	1.3	SL-8	**0.0122**	--	< 0.00433 U	--	< 0.1 U	< 0.0005 U	< 0.01 U	--	< 0.005 U
Anthracene	mg/kg	0.96	SL-8	**0.0167**	--	< 0.00433 U	--	< 0.1 U	< 0.0005 U	< 0.01 U	--	< 0.005 U
Benzo(g,h,i)perylene	mg/kg	0.67	SL-8	**0.0603**	--	< 0.00433 U	--	< 0.1 U	< 0.0005 U	**0.046 J**	--	**0.015**
Fluoranthene	mg/kg	1.7	SL-8	**0.115**	--	**0.00101 J**	--	< 0.1 U	< 0.0005 U	**0.067**	--	< 0.005 U
Fluorene	mg/kg	0.54	SL-8	**0.0109**	--	< 0.00433 U	--	< 0.1 U	< 0.0005 U	**0.054**	--	< 0.005 U
Naphthalene	mg/kg	0.039	SL-3	**0.021**	< 0.005 U	< 0.00433 U	< 0.00522 U	< 0.005 U	< 0.005 U	**0.21**	--	< 0.005 U
Phenanthrene	mg/kg	1.5	SL-8	**0.13**	--	**0.00471**	--	< 0.1 U	< 0.0005 U	**0.083**	--	< 0.005 U
Pyrene	mg/kg	2.6	SL-8	**0.156**	--	**0.00157 J**	--	< 0.1 U	< 0.0005 U	**0.11**	--	< 0.005 U
Benz(a)anthracene	mg/kg	0.73	SL-9	**0.0507**	--	**0.00083 J**	--	< 0.1 U	< 0.0005 U	**0.033**	--	< 0.005 U
Benzo(a)pyrene	mg/kg	0.00031	SL-3	**0.0678**	--	**0.00086 J**	--	**0.12**	< 0.0005 U	**0.047 J**	--	< 0.005 U
Benzo(b)fluoranthene	mg/kg	44	SL-9	**0.0459**	--	< 0.00433 U	--	**0.18**	< 0.0005 U	**0.076 J**	--	< 0.005 U
Benzo(j)fluoranthene	mg/kg			**0.0309**	--	< 0.00433 U	--	--	--	--	--	--
Benzo(j,k)fluoranthene	mg/kg			--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	mg/kg	71	SL-9	**0.0257**	--	< 0.00433 U	--	< 0.1 U	< 0.0005 U	**0.024 J**	--	< 0.005 U
Chrysene	mg/kg	1.4	SL-8	**0.0731**	--	**0.00134 J**	--	**0.17**	< 0.0005 U	**0.059**	--	< 0.005 U
Dibenzo(a,h)anthracene	mg/kg	0.23	SL-8	**0.0103**	--	< 0.00433 U	--	< 0.1 U	< 0.0005 U	< 0.01 J	--	< 0.005 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.6	SL-8	**0.0451**	--	< 0.00433 U	--	< 0.1 U	< 0.0005 U	**0.039 J**	--	**0.0098**
Total Benzofluoranthenes	mg/kg	1.1	SL-9	**0.102**	--	< 0.00866 U	--	**0.23**	< 0.0005 U	**0.1 J**	--	< 0.005 U
Total HPAHs (ND = 1/2 RDL)	mg/kg	1.1	SL-9	**0.681**	--	**0.0186 J**	--	**0.82**	< 0.0005 U	**0.506 J**	--	**0.0448**
Total LPAHs (ND = 1/2 RDL)	mg/kg	5.2	SL-8	**0.196**	--	**0.0155**	--	< 0.1 U	< 0.005 U	**0.362**	--	< 0.005 U
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	0.00031	SL-3	**0.0863**	--	**0.00182 J**	--	**0.16**	< 0.000378 U	**0.0653 J**	--	**0.00451**
Semivolatile Organic Compounds (SVOCs)												
1,2-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	mg/kg	0.00068	SL-3	--	--	--	--	< 0.5 U	--	< 0.05 U	--	--
1,3-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--
1,4-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	mg/kg	2400	SL-1	--	--	--	--	--	--	--	--	--
2,3,5,6-Tetrachlorophenol	mg/kg			--	--	--	--	--	--	--	--	--
2,3-Dichloroaniline	mg/kg			--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	mg/kg	22	SL-3	--	--	--	--	< 5 U	--	< 0.5 U	--	< 0.25 U
2,4,6-Trichlorophenol	mg/kg	0.0033	SL-3	--	--	--	--	< 5 U	--	< 0.5 U	--	< 0.25 U
2,4-Dichlorophenol	mg/kg	0.069	SL-3	--	--	--	--	< 5 U	--	< 0.5 U	--	< 0.25 U
2,4-Dimethylphenol	mg/kg	0.029	SL-8	--	--	--	--	< 5 U	--	< 0.5 U	--	< 0.25 U
2,4-Dinitrophenol	mg/kg	0.061	SL-9	--	--	--	--	< 15 U	--	< 1.5 U	--	< 0.75 U
2,4-Dinitrotoluene	mg/kg	0.0028	SL-3	--	--	--	--	< 2.5 U	--	< 0.25 U	--	< 0.12 U
2,6-Dinitrotoluene	mg/kg	0.67	SL-1	--	--	--	--	< 2.5 U	--	< 0.25 U	--	< 0.12 U
2-Chloronaphthalene	mg/kg	5.4	SL-3	--	--	--	--	< 0.5 U	--	< 0.05 U	--	< 0.025 U
2-Chlorophenol	mg/kg	0.2	SL-3	--	--	--	--	< 5 U	--	< 0.5 U	--	< 0.25 U
2-Methylphenol	mg/kg	0.063	SL-8	--	--	--	--	< 5 U	--	< 0.5 U	--	< 0.25 U
2-Nitroaniline	mg/kg	800	SL-1	--	--	--	--	< 2.5 U	--	< 0.25 U	--	< 0.12 U
2-Nitrophenol	mg/kg			--	--	--	--	< 5 U	--	< 0.5 U	--	< 0.25 U
3 & 4 Methylphenol	mg/kg			--	--	--	--	< 10 U	--	< 1 U	--	< 0.5 U
3,3'-Dichlorobenzidine	mg/kg	2.20E-04	SL-3	--	--	--	--	< 5 U	--	< 0.5 U	--	--
3-Nitroaniline	mg/kg			--	--	--	--	< 50 U	--	< 5 U	--	< 2.5 U
4,6-Dinitro-2-methylphenol	mg/kg	0.13	SL-3	--	--	--	--	< 15 U	--	< 1.5 U	--	< 0.75 U
4-Bromophenyl phenyl ether	mg/kg			--	--	--	--	< 0.5 U	--	< 0.05 U	--	< 0.025 U
4-Chloro-3-methylphenol	mg/kg	0.5	SL-3	--	--	--	--	< 5 U	--	< 0.5 U	--	< 0.25 U
4-Chloroaniline	mg/kg	5	SL-1	--	--	--	--	< 50 U	--	< 5 U	--	< 2.5 UJ
4-Chlorophenyl phenyl ether	mg/kg			--	--	--	--	< 0.5 U	--	< 0.05 U	--	< 0.025 U
4-Methylphenol	mg/kg	0.67	SL-8	--	--	--	--	< 10 U	--	< 1 U	--	< 0.5 U
4-Nitroaniline	mg/kg	22	SL-9	--	--	--	--	< 50 U	--	< 5 U	--	< 2.5 U
4-Nitrophenol	mg/kg			--	--	--	--	< 15 U	--	< 1.5 U	--	< 0.75 U
Aniline	mg/kg	180	SL-1	--	--	--	--	--	--	--	--	--
Benzoic acid	mg/kg	0.65	SL-8	--	--	--	--	< 25 U	--	< 2.5 U	--	< 1.2 U
Benzyl alcohol	mg/kg	0.057	SL-8	--	--	--	--	< 5 U	--	< 0.5 U	--	< 0.25 U
Benzyl butyl phthalate	mg/kg	0.0036	SL-3	--	--	--	--	< 5 U	--	< 0.5 U	--	< 0.25 U
Bis(2-chloro-1-methylethyl) ether	mg/kg	0.59	SL-3	--	--	--	--	< 0.5 U	--	< 0.05 U	--	< 0.025 U
Bis(2-chloroethoxy)methane	mg/kg	240	SL-1	--	--	--	--	< 0.5 U	--	< 0.05 U	--	< 0.025 U
Bis(2-chloroethyl) ether	mg/kg	0.00033	SL-3	--	--	--	--	< 0.5 U	--	< 0.05 U	--	< 0.025 U
bis(2-Chloroisopropyl)ether	mg/kg			--	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) adipate	mg/kg	830	SL-1	--	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate	mg/kg	0.02	SL-9	--	--	--	--	< 8 U	--	< 0.8 U	--	< 0.4 U
Carbazole	mg/kg	79	SL-9	--	--	--	--	< 0.5 U	--	< 0.05 U	--	< 0.025 U
Dibenzofuran	mg/kg	0.54	SL-8	**0.00531**	--	**0.00408 J**	--	< 0.5 U	--	< 0.05 U	--	< 0.025 U
Diethyl phthalate	mg/kg	0.2	SL-8	--	--	--	--	< 5 U	--	< 0.5 U	--	< 0.25 U
Dimethyl phthalate	mg/kg	0.071	SL-8	--	--	--	--	< 5 U	--	< 0.5 U	--	< 0.25 U
Di-n-butyl phthalate	mg/kg	0.011	SL-9	--	--	--	--	< 5 U	--	< 0.5 U	--	< 0.25 U
Di-n-octyl phthalate	mg/kg	0.91	SL-9	--	--	--	--	< 5 U	--	< 0.5 J	--	< 0.25 U
Hexachlorobenzene	mg/kg	8.00E-06	SL-3	--	--	--	--	< 0.5 U	--	< 0.05 U	--	< 0.025 U
Hexachlorobutadiene	mg/kg	0.00021	SL-3	< 0.0068 UJ	< 0.005 U	< 0.00542 UJ	< 0.00522 U	< 0.01 U	< 0.01 U	< 0.05 U	--	< 0.025 U
Hexachlorocyclopentadiene	mg/kg	0.032	SL-3	--	--	--	--	< 1.5 U	--	< 0.15 U	--	< 0.075 U
Hexachloroethane	mg/kg	0.00016	SL-3	--	--	--	--	< 0.5 U	--	< 0.05 U	--	< 0.025 U
Isophorone	mg/kg	0.58	SL-3	--	--	--	--	< 0.5 U	--	**0.33**	--	< 0.025 U
Nitrobenzene	mg/kg	0.64	SL-3	--	--	--	--	< 0.5 U	--	**0.052**	--	< 0.025 U
N-Nitrosodimethylamine	mg/kg	0.0015	SL-3	--	--	--	--	< 0.5 U	--	< 0.05 U	--	--
N-Nitroso-di-n-propylamine	mg/kg	0.00055	SL-3	--	--	--	--	< 0.5 U	--	< 0.05 U	--	< 0.025 U
N-Nitrosodiphenylamine	mg/kg	0.028	SL-8	--	--	--	--	< 0.5 U	--	< 0.05 U	--	< 0.025 U
Pentachlorophenol	mg/kg	3.20E-05	SL-3	--	--	--	--	< 2.5 U	--	**0.56**	--	**0.18**
Phenol	mg/kg	0.42	SL-8	--	--	--	--	< 5 U	--	< 0.5 U	--	< 0.25 U
Pyridine	mg/kg	80	SL-1	--	--	--	--	--	--	--	--	--

Table I.3.B. Vadose Soil Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL

Location				SB-34				SB-35		SB-36		
Date				03/01/21	03/23/21	03/01/21	03/23/21	09/12/22	09/12/22	09/12/22	09/12/22	09/12/22
Sample				SB-34-0-1	SB-34R-0-1	SB-34-3-4	SB-34R-3-4	SB-35-0-1	SB-35-3-4	SB-36-0-1	SB-36-0-1-TIG	SB-36-2-3
Depth				0 - 1 ft	0 - 1 ft	3 - 4 ft	3 - 4 ft	0 - 1 ft	3 - 4 ft	0 - 1 ft	0 - 1 ft	2 - 3 ft
Geologic Unit				Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill
Analyte	Unit	Prelmiinary RI SL	Basis of SL									
Pesticides												
2,4'-DDD	mg/kg			--	--	--	--	--	--	--	--	--
2,4'-DDE	mg/kg			--	--	--	--	--	--	--	--	--
2,4'-DDT	mg/kg			--	--	--	--	--	--	--	--	--
4,4'-DDD	mg/kg	7.30E-06	SL-3	--	--	--	--	--	--	< 0.01 U	--	--
4,4'-DDE	mg/kg	1.50E-06	SL-3	--	--	--	--	--	--	< 0.01 U	--	--
4,4'-DDT	mg/kg	1.60E-05	SL-3	--	--	--	--	--	--	< 0.01 U	--	--
Aldrin	mg/kg	4.00E-08	SL-3	--	--	--	--	--	--	**0.017**	--	--
Alpha-BHC	mg/kg	1.90E-06	SL-3	--	--	--	--	--	--	< 0.005 U	--	--
Beta-BHC	mg/kg	6.60E-05	SL-3	--	--	--	--	--	--	< 0.005 U	--	--
Chlordane	mg/kg	2.30E-05	SL-3	--	--	--	--	--	--	--	--	--
cis-Chlordane	mg/kg	0.0001	SL-8	--	--	--	--	--	--	< 0.005 U	--	--
cis-Nonachlor	mg/kg			--	--	--	--	--	--	--	--	--
Delta-BHC	mg/kg	0.0048	SL-1	--	--	--	--	--	--	< 0.005 U	--	--
Dieldrin	mg/kg	3.60E-08	SL-3	--	--	--	--	--	--	**0.26**	--	--
Endosulfan I	mg/kg	0.0012	SL-3	--	--	--	--	--	--	< 0.005 U	--	--
Endosulfan II	mg/kg	0.0012	SL-3	--	--	--	--	--	--	< 0.01 U	--	--
Endosulfan Sulfate	mg/kg	2	SL-3	--	--	--	--	--	--	< 0.01 U	--	--
Endrin	mg/kg	0.00044	SL-3	--	--	--	--	--	--	< 0.01 U	--	--
Endrin Aldehyde	mg/kg	0.0024	SL-3	--	--	--	--	--	--	< 0.01 U	--	--
Endrin ketone	mg/kg			--	--	--	--	--	--	< 0.01 U	--	--
Heptachlor	mg/kg	6.60E-08	SL-3	--	--	--	--	--	--	< 0.005 U	--	--
Heptachlor Epoxide	mg/kg	4.90E-07	SL-3	--	--	--	--	--	--	< 0.005 U	--	--
Lindane	mg/kg	0.0039	SL-3	--	--	--	--	--	--	< 0.005 U	--	--
Methoxychlor	mg/kg	0.032	SL-3	--	--	--	--	--	--	< 0.05 U	--	--
Mirex	mg/kg	0.0071	SL-3	--	--	--	--	--	--	--	--	--
Oxychlordane	mg/kg			--	--	--	--	--	--	--	--	--
Toxaphene	mg/kg	6.10E-05	SL-3	--	--	--	--	--	--	< 0.25 U	--	--
trans-Chlordane	mg/kg	0.0001	SL-8	--	--	--	--	--	--	< 0.017 U	--	--
trans-Nonachlor	mg/kg			--	--	--	--	--	--	--	--	--
Total Petroleum Hydrocarbons (TPH)												
Gasoline Range Organics	mg/kg	30	SL-3	< 6.5 U	--	< 7.93 U	--	< 5 U	< 5 U	**2.4 J**	--	< 5 U
Diesel Range Organics	mg/kg	2000	SL-9	< 55.9 U	--	< 54.3 U	--	**63**	< 5 UJ	**240**	--	**190 J**
Motor Oil Range Organics	mg/kg	2000	SL-9	**233**	--	< 109 U	--	**450**	< 25 U	**1100**	--	**760**
Diesel and Oil Extended Range Organics	mg/kg	2000	SL-9	**233**	--	< 109 U	--	**513**	< 25 UJ	**1340**	--	**950 J**
Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)												
Benzene	mg/kg	0.0088	SL-3	**0.00067 J**	**0.00065 J**	< 0.00108 UJ	< 0.00104 U	< 0.001 U	< 0.001 U	< 0.001 U	--	< 0.001 U
Toluene	mg/kg	0.72	SL-3	**0.00274 J**	**0.00272**	< 0.00108 UJ	< 0.00104 U	< 0.002 U	< 0.001 U	< 0.002 U	--	< 0.001 U
Ethylbenzene	mg/kg	0.18	SL-3	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ	< 0.00104 U	< 0.001 U	< 0.001 U	< 0.001 U	--	< 0.001 U
Total Xylenes	mg/kg	0.94	SL-3	< 0.00272 UJ	**0.00105 J**	< 0.00217 UJ	< 0.00209 U	< 0.002 U	< 0.002 U	**0.005**	--	< 0.002 U
Volatile Organic Compounds (VOCs)												
1,1,1,2-Tetrachloroethane	mg/kg	38	SL-1	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ	< 0.00104 U	< 0.05 U	< 0.05 U	< 0.05 U	--	< 0.05 U
1,1,1-Trichloroethane	mg/kg	370	SL-3	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ	< 0.00104 U	< 0.002 U	< 0.002 U	< 0.002 U	--	< 0.002 U
1,1,2 - Trichlorotrifluoroethane	mg/kg	2400000	SL-1	< 0.00272 UJ	< 0.002 U	< 0.00217 UJ	< 0.00209 U	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	0.0017	SL-3	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ	< 0.00104 U	< 0.05 U	< 0.05 U	< 0.05 U	--	< 0.05 U
1,1,2-Trichloroethane	mg/kg	0.005	SL-3	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ	< 0.00104 U	< 0.005 U	< 0.005 U	< 0.005 U	--	< 0.005 U
1,1-Dichloroethane	mg/kg	180	SL-1	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ	< 0.00104 U	< 0.002 U	< 0.002 U	< 0.002 U	--	< 0.002 U
1,1-Dichloroethene	mg/kg	11	SL-9	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ	< 0.00104 U	< 0.001 U	< 0.001 U	< 0.001 U	--	< 0.001 U
1,1-Dichloropropene	mg/kg			< 0.00136 UJ	< 0.001 U	< 0.00108 UJ	< 0.00104 U	< 0.05 U	< 0.05 U	< 0.05 U	--	< 0.05 U
1,2,3-Trichlorobenzene	mg/kg	64	SL-1	< 0.0068 UJ	< 0.005 U	< 0.00542 UJ	< 0.00522 U	< 0.25 U	< 0.25 U	< 0.25 U	--	< 0.25 U
1,2,3-Trichloropropane	mg/kg	0.0063	SL-1	< 0.00272 UJ	< 0.002 U	< 0.00217 UJ	< 0.00209 U	< 0.05 U	< 0.05 U	< 0.05 U	--	< 0.05 U
1,2,4-Trichlorobenzene	mg/kg	0.0014	SL-3	< 0.0068 UJ	< 0.005 U	< 0.00542 UJ	< 0.00522 U	< 0.5 U	< 0.01 U	< 0.05 U	--	< 0.01 U
1,2,4-Trimethylbenzene	mg/kg	800	SL-1	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ	< 0.00104 U	< 0.05 U	< 0.05 U	< 0.05 U	--	< 0.05 U
1,2-Dibromo-3-chloropropane	mg/kg	0.23	SL-1	< 0.0068 UJ	< 0.005 U	< 0.00542 UJ	< 0.00522 U	< 0.5 U	< 0.5 U	< 0.5 U	--	< 0.5 U
1,2-Dibromoethane (EDB)	mg/kg	0.5	SL-1	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ	< 0.00104 U	< 0.005 U	< 0.005 U	< 0.005 U	--	< 0.005 U
1,2-Dichlorobenzene	mg/kg	0.035	SL-8	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ	< 0.00104 U	< 0.05 U	< 0.05 U	< 0.05 U	--	< 0.025 U
1,2-Dichloroethane (EDC)	mg/kg	0.35	SL-3	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ	< 0.00104 U	< 0.002 U	< 0.002 U	< 0.002 U	--	< 0.002 U
1,2-Dichloropropane	mg/kg	0.016	SL-3	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ	< 0.00104 U	< 0.05 U	< 0.05 U	< 0.05 U	--	< 0.05 U
1,3,5-Trimethylbenzene	mg/kg	800	SL-1	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ	< 0.00104 U	< 0.05 U	< 0.05 U	< 0.05 U	--	< 0.05 U
1,3-Dichlorobenzene	mg/kg	0.023	SL-3	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ	< 0.00104 U	< 0.5 U	< 0.05 U	< 0.05 U	--	< 0.05 U
1,3-Dichloropropane	mg/kg	0.0066	SL-3	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ	< 0.00104 U	< 0.05 U	< 0.05 U	< 0.05 U	--	< 0.05 U
1,4-Dichloro-2-Butene	mg/kg			< 0.0068 UJ	< 0.005 U	< 0.00542 UJ	< 0.00522 U	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	0.11	SL-8	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ	< 0.00104 U	< 0.05 U	< 0.05 U	< 0.05 U	--	< 0.05 U
2,2-Dichloropropane	mg/kg			< 0.00136 UJ	< 0.001 U	< 0.00108 UJ	< 0.00104 U	< 0.05 U	< 0.05 U	< 0.05 U	--	< 0.05 U
2-Butanone	mg/kg	350	SL-9	**0.0374 J**	**0.00373 J**	< 0.00542 UJ	< 0.00522 U	< 1 U	< 1 U	< 1 U	--	< 1 U
2-Chloroethyl Vinyl Ether	mg/kg			< 0.0068 UJ	< 0.005 U	< 0.00542 UJ	< 0.00522 U	--	--	--	--	--
2-Chlorotoluene	mg/kg	1600	SL-1	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ	< 0.00104 U	< 0.05 U	< 0.05 U	< 0.05 U	--	< 0.05 U
2-Hexanone	mg/kg	400	SL-1	< 0.0068 UJ	< 0.005 U	< 0.00542 UJ	< 0.00522 U	< 0.5 U	< 0.5 U	< 0.5 U	--	< 0.5 U
2-Pentanone	mg/kg			**0.0123 J**	< 0.005 U	< 0.00542 UJ	< 0.00522 U	--	--	--	--	--
4-Chlorotoluene	mg/kg	1600	SL-1	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ	< 0.00104 U	< 0.05 U	< 0.05 U	< 0.05 U	--	< 0.05 U
4-Methyl-2-pentanone	mg/kg	6400	SL-1	< 0.0068 UJ	< 0.005 U	< 0.00542 UJ	< 0.00522 U	< 1 U	< 1 U	< 1 U	--	< 1 U
Acetone	mg/kg	1.2	SL-9	**0.24 J**	**0.0828**	**0.0436 J**	**0.0512**	< 5 U	< 5 UJ	< 5 U	--	< 5 UJ
Acrolein	mg/kg	0.0044	SL-3	< 0.0068 UJ	< 0.005 U	< 0.00542 UJ	< 0.00522 U	--	--	--	--	--
Acrylonitrile	mg/kg	0.00012	SL-3	< 0.0068 UJ	< 0.005 U	< 0.00542 UJ	< 0.00522 U	--	--	--	--	--
Bromobenzene	mg/kg	640	SL-1	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ	< 0.00104 U	< 0.05 U	< 0.05 U	< 0.05 U	--	< 0.05 U
Bromochloromethane	mg/kg			< 0.00136 UJ	< 0.001 U	< 0.00108 UJ	< 0.00104 U	--	--	--	--	--
Bromodichloromethane	mg/kg	0.013	SL-3	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ	< 0.00104 U	< 0.005 U	< 0.005 U	< 0.005 U	--	< 0.005 U
Bromoform	mg/kg	0.078	SL-3	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ	< 0.00104 U	< 0.05 U	< 0.05 U	< 0.05 U	--	< 0.05 U
Bromomethane	mg/kg	0.24	SL-9	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ	< 0.00104 U	< 0.1 U	< 0.1 U	< 0.1 U	--	< 0.1 U
Carbon Disulfide	mg/kg	0.81	SL-9	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ	< 0.00104 U	--	--	--	--	--
Carbon Tetrachloride	mg/kg	0.0029	SL-3	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ	< 0.00104 U	< 0.005 U	< 0.005 U	< 0.005 U	--	< 0.005 U
Chlorobenzene	mg/kg	1.7	SL-3	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ	< 0.00104 U	< 0.05 U	< 0.05 U	< 0.05 U	--	< 0.05 U
Chloroethane	mg/kg			< 0.00272 UJ	< 0.002 U	< 0.00217 UJ	< 0.00209 U	< 0.1 U	< 0.1 U	< 0.1 U	--	< 0.1 U
Chloroform	mg/kg	0.81	SL-3	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ	< 0.00104 U	< 0.05 U	< 0.05 U	< 0.05 U	--	< 0.05 U
Chloromethane	mg/kg			< 0.00136 UJ	< 0.001 U	< 0.00108 UJ	< 0.00104 U	< 0.5 U	< 0.5 U	< 0.5 U	--	< 0.5 U
cis-1,2-Dichloroethene (DCE)	mg/kg	24	SL-9	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ	< 0.00104 U	< 0.001 U	< 0.001 U	< 0.001 U	--	< 0.001 U
cis-1,3-Dichloropropene	mg/kg	0.0056	SL-3	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ	< 0.00104 U	< 0.01 U	< 0.01 U	< 0.01 U	--	< 0.01 U
Dibromochloromethane	mg/kg	0.01	SL-3	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ	< 0.00104 U	< 0.01 U	< 0.01 U	< 0.01 U	--	< 0.01 U
Dibromomethane	mg/kg	800	SL-1	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ	< 0.00104 U	< 0.05 U	< 0.05 U	< 0.05 U	--	< 0.05 U
Dichlorodifluoromethane	mg/kg	16000	SL-1	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ	< 0.00104 U	< 0.5 U	< 0.5 U	< 0.5 U	--	< 0.5 U
Isopropylbenzene	mg/kg	8000	SL-1	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ	< 0.00104 U	< 0.05 U	< 0.05 U	< 0.05 U	--	< 0.05 U
m,p-Xylenes	mg/kg			**0.00088 J**	**0.00105 J**	< 0.00217 UJ	< 0.00209 U	< 0.002 U	< 0.002 U	**0.0032**	--	< 0.002 U
Methyl tert-butyl ether (MTBE)	mg/kg	560	SL-1	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ	< 0.00104 U	< 0.001 U	< 0.001 U	< 0.001 U	--	< 0.001 U
Methylene Chloride	mg/kg	0.43	SL-3	< 0.0068 UJ	< 0.005 U	< 0.00542 UJ	< 0.00522 U	< 0.2 U	< 0.2 U	< 0.2 U	--	< 0.2 U
Methyliodide	mg/kg			< 0.00136 UJ	< 0.001 U	< 0.00108 UJ	< 0.00104 U	--	--	--	--	--
n-Butylbenzene	mg/kg	4000	SL-1	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ	< 0.00104 U	--	--	--	--	--
n-Hexane	mg/kg	4800	SL-1	--	--	--	--	< 0.25 U	< 0.25 U	< 0.25 U	--	< 0.25 U
n-Propylbenzene	mg/kg	8000	SL-1	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ	< 0.00104 U	< 0.05 U	< 0.05 U	< 0.05 U	--	< 0.05 U
o-Xylene	mg/kg			< 0.00136 UJ	< 0.001 U	< 0.00108 UJ	< 0.00104 U	< 0.001 U	< 0.001 U	**0.0018**	--	< 0.001 U
p-Isopropyltoluene	mg/kg	320	SL-1	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ	< 0.00104 U	< 0.05 U	< 0.05 U	< 0.05 U	--	< 0.05 U
sec-Butylbenzene	mg/kg	8000	SL-1	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ	< 0.00104 U	< 0.05 U	< 0.05 U	< 0.05 U	--	< 0.05 U
Styrene	mg/kg	4.7	SL-9	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ	< 0.00104 U	< 0.05 U	< 0.05 U	< 0.05 U	--	< 0.05 U
tert-Butylbenzene	mg/kg	8000	SL-1	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ	< 0.00104 U	< 0.05 U	< 0.05 U	< 0.05 U	--	< 0.05 U
Tetrachloroethene (PCE)	mg/kg	0.029	SL-3	**0.00086 J**	**0.0015**	< 0.00108 UJ	< 0.00104 U	**0.014**	**0.0016**	**0.059**	--	**0.038**
trans-1,2-Dichloroethene	mg/kg	0.78	SL-3	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ	< 0.00104 U	< 0.002 U	< 0.002 U	< 0.002 U	--	< 0.002 U
trans-1,3-Dichloropropene	mg/kg	0.0056	SL-3	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ	< 0.00104 U	< 0.01 U	< 0.01 U	< 0.01 U	--	< 0.01 U
Trichloroethene (TCE)	mg/kg	0.0044	SL-3	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ	< 0.00104 U	< 0.001 U	< 0.001 U	**0.0053**	--	< 0.001 U
Trichlorofluoromethane	mg/kg	24000	SL-1	< 0.00272 UJ	< 0.002 U	< 0.00217 UJ	< 0.00209 U	< 0.5 U	< 0.5 U	< 0.5 U	--	< 0.5 U
Vinyl Acetate	mg/kg	80000	SL-1	< 0.0068 UJ	< 0.005 U	< 0.00542 UJ	< 0.00522 U	--	--	--	--	--
Vinyl Chloride	mg/kg	0.0011	SL-3	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ	< 0.00104 U	< 0.001 U	< 0.001 U	< 0.001 U	--	< 0.001 U
Conventionals												
Total Organic Carbon	%			**0.14**	--	< 0.04 U	--	--	--	--	--	--
Total Solids	%			**90.1**	--	**90.3**	--	--	--	--	**94.8**	--

Table I.3.B. Vadose Soil Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL

Location				SB-37				SB-38		SB-39	
Date				09/13/22	09/13/22	09/13/22	09/13/22	09/12/22	09/12/22	09/13/22	09/13/22
Sample				SB-37-0-1	SB-37-0-2-TIG	SB-37-1-2	SB-37-5-6	SB-38-0-1	SB-38-5-6	SB-39-0-1	SB-39-5-6
Depth				0 - 1 ft	0 - 2 ft	1 - 2 ft	5 - 6 ft	0 - 1 ft	5 - 6 ft	0 - 1 ft	5 - 6 ft
Geologic Unit				Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill
Analyte	Unit	Prelmiinary RI SL	Basis of SL								
Metals, Total											
Arsenic	mg/kg	7.3	SL-10	**3.37**	--	**14.2 J**	**0.958 J**	**6.44**	**0.944**	**3.01**	**9.42 J**
Barium	mg/kg	250	SL-10	--	--	--	--	**310**	--	--	--
Cadmium	mg/kg	0.77	SL-10	**0.787**	--	**115**	**0.871**	**12.8**	< 0.2 U	**1.2**	**1.02**
Chromium	mg/kg	67	SL-9	**246**	--	**212**	**12**	**385**	**7.21**	**64.5**	**615**
Copper	mg/kg	36	SL-10	**16.8**	--	**25.2**	**7.16**	**266**	**7.18**	**32.4**	**2360**
Lead	mg/kg	120	SL-9	**916**	--	**637**	**1.25**	**4640**	**0.953**	**642**	**183**
Mercury	mg/kg	0.07	SL-10	**0.18**	--	**0.058**	**0.057**	**0.88**	**0.18**	**0.28**	**0.028**
Nickel	mg/kg	48	SL-10	**7.12**	--	**9.65**	**4.89**	**19.5**	**5.09**	**10.4**	**441**
Selenium	mg/kg	0.78	SL-10	--	--	--	--	< 5 U	--	--	--
Silver	mg/kg	0.61	SL-10	--	--	--	--	< 1 U	--	--	--
Zinc	mg/kg	100	SL-3	**175**	--	**41800**	**87.9**	**1770**	**15.6**	**276**	**443**
Butyl Tins											
Dibutyltin Ion	mg/kg			**0.106**	--	**0.0026**	--	**0.0124**	< 0.00576 U	**0.00203 J**	**0.315**
Monobutyltin	mg/kg			**0.0513**	--	**0.0214**	--	**0.0125**	< 0.00407 U	**0.00666**	**0.123**
Tetrabutyltin	mg/kg			< 0.00468 U	--	< 0.005 U	--	< 0.00493 U	< 0.00498 U	< 0.00478 U	< 0.00497 U
Tributyltin Ion	mg/kg	0.0021	SL-8	**0.00131 J**	--	< 0.00386 U	--	**0.0105**	**0.000478**	< 0.00369 U	**0.874**
Polychlorinated Biphenyl (PCB) Aroclors											
Total PCB Aroclors (ND = 0)	mg/kg	1.10E-05	SL-3	**6.8**	--	**6.5**	< 0.004 U	**3.5**	< 0.004 U	**24**	**1.42**
Polychlorinated Biphenyl (PCB) Congeners											
Total PCB Congeners (ND = 0)	mg/kg	1.10E-05	SL-3	--	**0.973 J**	--	--	--	--	**22.5 J**	--
Total PCB TEQ (ND = 0)	mg/kg	6.90E-09	SL-3	--	**2.47E-05**	--	--	--	--	**7.28E-04**	--
Dioxins/Furans											
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	5.20E-06	SL-10	--	--	**1.79E-04 J**	--	**1.07E-03**	--	**1.75E-03 J**	--
2,3,7,8-TCDD	mg/kg	5.20E-06	SL-10	--	--	**2.96E-06**	--	**1.99E-05**	--	**2.06E-05**	--
Polycyclic Aromatic Hydrocarbons (PAHs)											
1-Methylnaphthalene	mg/kg	20	SL-1	< 0.01 U	--	**0.018**	< 0.0005 U	< 0.2 U	< 0.0005 U	< 0.02 U	< 0.02 U
2-Methylnaphthalene	mg/kg	0.67	SL-8	**0.012**	--	**0.022**	< 0.0005 U	< 0.2 U	< 0.0005 U	< 0.02 U	< 0.02 U
Acenaphthene	mg/kg	0.5	SL-8	< 0.01 U	--	< 0.01 U	< 0.0005 U	< 0.2 U	< 0.0005 U	< 0.02 U	< 0.02 U
Acenaphthylene	mg/kg	1.3	SL-8	< 0.01 U	--	< 0.01 U	< 0.0005 U	< 0.2 U	< 0.0005 U	< 0.02 U	< 0.02 U
Anthracene	mg/kg	0.96	SL-8	**0.011**	--	< 0.01 U	< 0.0005 U	< 0.2 U	< 0.0005 U	< 0.02 U	< 0.02 U
Benzo(g,h,i)perylene	mg/kg	0.67	SL-8	**0.12 J**	--	**0.027**	< 0.0005 U	**0.21**	< 0.0005 U	**0.059 J**	**0.069**
Fluoranthene	mg/kg	1.7	SL-8	**0.036**	--	**0.023**	< 0.0005 U	< 0.2 U	< 0.0005 U	**0.057**	**0.042**
Fluorene	mg/kg	0.54	SL-8	< 0.01 U	--	< 0.01 U	< 0.0005 U	< 0.2 U	< 0.0005 U	< 0.02 U	< 0.02 U
Naphthalene	mg/kg	0.039	SL-3	**0.022**	--	**0.044**	< 0.005 U	< 0.005 U	< 0.0005 U	< 0.005 U	< 0.02 U
Phenanthrene	mg/kg	1.5	SL-8	**0.024**	--	**0.015**	< 0.0005 U	< 0.2 U	< 0.0005 U	**0.027**	**0.023**
Pyrene	mg/kg	2.6	SL-8	**0.11**	--	**0.038**	< 0.0005 U	< 0.2 U	**0.00061**	**0.07**	**0.041**
Benz(a)anthracene	mg/kg	0.73	SL-9	**0.037**	--	**0.011**	< 0.0005 U	< 0.2 U	< 0.0005 U	**0.03**	**0.023**
Benzo(a)pyrene	mg/kg	0.00031	SL-3	**0.081 J**	--	**0.015**	< 0.0005 U	**0.21**	< 0.0005 U	**0.084 J**	**0.072**
Benzo(b)fluoranthene	mg/kg	44	SL-9	**0.14 J**	--	**0.036**	< 0.0005 U	**0.35**	< 0.0005 U	**0.18 J**	**0.13**
Benzo(j)fluoranthene	mg/kg			--	--	--	--	--	--	--	--
Benzo(j,k)fluoranthene	mg/kg			--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	mg/kg	71	SL-9	**0.045 J**	--	**0.012**	< 0.0005 U	< 0.2 U	< 0.0005 U	**0.066 J**	**0.041**
Chrysene	mg/kg	1.4	SL-8	**0.13**	--	**0.033**	< 0.0005 U	**0.28**	< 0.0005 U	**0.056**	**0.059**
Dibenzo(a,h)anthracene	mg/kg	0.23	SL-8	**0.02 J**	--	< 0.01 U	< 0.0005 U	< 0.2 U	< 0.0005 U	< 0.02 J	< 0.02 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.6	SL-8	**0.097 J**	--	**0.017**	< 0.0005 U	**0.2**	< 0.0005 U	**0.06 J**	**0.086**
Total Benzofluoranthenes	mg/kg	1.1	SL-9	**0.185 J**	--	**0.048**	< 0.0005 U	**0.45**	< 0.0005 U	**0.246 J**	**0.171**
Total HPAHs (ND = 1/2 RDL)	mg/kg	1.1	SL-9	**0.816 J**	--	**0.217**	< 0.0005 U	**1.75**	**0.00286**	**0.672 J**	**0.573**
Total LPAHs (ND = 1/2 RDL)	mg/kg	5.2	SL-8	**0.072**	--	**0.079**	< 0.005 U	< 0.2 U	< 0.0005 U	**0.0695**	**0.073**
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	0.00031	SL-3	**0.116 J**	--	**0.0234**	< 0.000378 U	**0.298**	< 0.000378 U	**0.119 J**	**0.102**
Semivolatile Organic Compounds (SVOCs)											
1,2-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	mg/kg	0.00068	SL-3	< 0.05 U	--	--	< 0.0025 U	< 1 U	--	< 0.1 U	< 0.1 U
1,3-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--
1,4-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	mg/kg	2400	SL-1	--	--	--	--	--	--	--	--
2,3,5,6-Tetrachlorophenol	mg/kg			--	--	--	--	--	--	--	--
2,3-Dichloroaniline	mg/kg			--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	mg/kg	22	SL-3	< 0.5 U	--	< 0.5 U	< 0.025 U	< 10 U	--	< 1 U	< 1 U
2,4,6-Trichlorophenol	mg/kg	0.0033	SL-3	< 0.5 U	--	< 0.5 U	< 0.025 U	< 10 U	--	< 1 U	< 1 U
2,4-Dichlorophenol	mg/kg	0.069	SL-3	< 0.5 U	--	< 0.5 U	< 0.025 U	< 10 U	--	< 1 U	< 1 U
2,4-Dimethylphenol	mg/kg	0.029	SL-8	< 0.5 U	--	< 0.5 U	< 0.025 U	< 10 U	--	< 1 U	< 1 U
2,4-Dinitrophenol	mg/kg	0.061	SL-9	< 1.5 U	--	< 1.5 U	< 0.075 U	< 30 U	--	< 3 U	< 3 U
2,4-Dinitrotoluene	mg/kg	0.0028	SL-3	< 0.25 U	--	< 0.25 U	< 0.012 U	< 5 U	--	< 0.5 U	< 0.5 U
2,6-Dinitrotoluene	mg/kg	0.67	SL-1	< 0.25 U	--	< 0.25 U	< 0.012 U	< 5 U	--	< 0.5 U	< 0.5 U
2-Chloronaphthalene	mg/kg	5.4	SL-3	< 0.05 U	--	< 0.05 U	< 0.0025 U	< 1 U	--	< 0.1 U	< 0.1 U
2-Chlorophenol	mg/kg	0.2	SL-3	< 0.5 U	--	< 0.5 U	< 0.025 U	< 10 U	--	< 1 U	< 1 U
2-Methylphenol	mg/kg	0.063	SL-8	< 0.5 U	--	< 0.5 U	< 0.025 U	< 10 U	--	< 1 U	< 1 U
2-Nitroaniline	mg/kg	800	SL-1	< 0.25 U	--	< 0.25 U	< 0.012 U	< 5 U	--	< 0.5 U	< 0.5 U
2-Nitrophenol	mg/kg			< 0.5 U	--	< 0.5 U	< 0.025 U	< 10 U	--	< 1 U	< 1 U
3 & 4 Methylphenol	mg/kg			< 1 U	--	< 1 U	< 0.05 U	< 20 U	--	< 2 U	< 2 U
3,3'-Dichlorobenzidine	mg/kg	2.20E-04	SL-3	< 0.5 U	--	--	< 0.025 U	< 10 U	--	< 1 U	< 1 U
3-Nitroaniline	mg/kg			< 5 U	--	< 5 U	< 0.25 U	< 100 U	--	< 10 U	< 10 U
4,6-Dinitro-2-methylphenol	mg/kg	0.13	SL-3	< 1.5 U	--	< 1.5 U	< 0.075 U	< 30 U	--	< 3 U	< 3 U
4-Bromophenyl phenyl ether	mg/kg			< 0.05 U	--	< 0.05 U	< 0.0025 U	< 1 U	--	< 0.1 U	< 0.1 U
4-Chloro-3-methylphenol	mg/kg	0.5	SL-3	< 0.5 U	--	< 0.5 U	< 0.025 U	< 10 U	--	< 1 U	< 1 U
4-Chloroaniline	mg/kg	5	SL-1	< 5 U	--	< 5 U	< 0.25 U	< 100 U	--	< 10 U	< 10 U
4-Chlorophenyl phenyl ether	mg/kg			< 0.05 U	--	< 0.05 U	< 0.0025 U	< 1 U	--	< 0.1 U	< 0.1 U
4-Methylphenol	mg/kg	0.67	SL-8	< 1 U	--	< 1 U	< 0.05 U	< 20 U	--	< 2 U	< 2 U
4-Nitroaniline	mg/kg	22	SL-9	< 5 U	--	< 5 U	< 0.25 U	< 100 U	--	< 10 U	< 10 U
4-Nitrophenol	mg/kg			< 1.5 U	--	< 1.5 U	< 0.075 U	< 30 U	--	< 3 U	< 3 U
Aniline	mg/kg	180	SL-1	--	--	--	--	--	--	--	--
Benzoic acid	mg/kg	0.65	SL-8	< 2.5 U	--	< 2.5 U	< 0.12 U	< 50 U	--	< 5 U	< 5 U
Benzyl alcohol	mg/kg	0.057	SL-8	< 0.5 U	--	< 0.5 U	< 0.025 U	< 10 U	--	< 1 U	< 1 U
Benzyl butyl phthalate	mg/kg	0.0036	SL-3	< 0.5 U	--	< 0.5 U	< 0.025 U	< 10 U	--	< 1 U	< 1 U
Bis(2-chloro-1-methylethyl) ether	mg/kg	0.59	SL-3	< 0.05 U	--	< 0.05 U	< 0.0025 U	< 1 U	--	< 0.1 U	< 0.1 U
Bis(2-chloroethoxy)methane	mg/kg	240	SL-1	< 0.05 U	--	< 0.05 U	< 0.0025 U	< 1 U	--	< 0.1 U	< 0.1 U
Bis(2-chloroethyl) ether	mg/kg	0.00033	SL-3	< 0.05 U	--	< 0.05 U	< 0.0025 U	< 1 U	--	< 0.1 U	< 0.1 U
bis(2-Chloroisopropyl)ether	mg/kg			--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) adipate	mg/kg	830	SL-1	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate	mg/kg	0.02	SL-9	< 0.8 U	--	**2.2**	< 0.04 U	< 16 U	--	**5**	**3.7**
Carbazole	mg/kg	79	SL-9	< 0.05 U	--	< 0.05 UJ	< 0.0025 UJ	< 1 U	--	< 0.1 U	< 0.1 UJ
Dibenzofuran	mg/kg	0.54	SL-8	< 0.05 U	--	< 0.05 U	< 0.0025 U	< 1 U	--	< 0.1 U	< 0.1 U
Diethyl phthalate	mg/kg	0.2	SL-8	< 0.5 U	--	< 0.5 U	< 0.025 U	< 10 U	--	< 1 U	< 1 U
Dimethyl phthalate	mg/kg	0.071	SL-8	< 0.5 U	--	< 0.5 U	< 0.025 U	< 10 U	--	< 1 U	< 1 U
Di-n-butyl phthalate	mg/kg	0.011	SL-9	< 0.5 U	--	< 0.5 U	< 0.025 U	< 10 U	--	< 1 U	< 1 U
Di-n-octyl phthalate	mg/kg	0.91	SL-9	< 0.5 U	--	< 0.5 U	< 0.025 U	< 10 U	--	< 1 U	< 1 U
Hexachlorobenzene	mg/kg	8.00E-06	SL-3	< 0.05 U	--	< 0.05 U	< 0.0025 U	< 1 U	--	< 0.1 U	< 0.1 U
Hexachlorobutadiene	mg/kg	0.00021	SL-3	< 0.05 U	--	< 0.05 U	< 0.0025 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.1 U
Hexachlorocyclopentadiene	mg/kg	0.032	SL-3	< 0.15 U	--	< 0.15 U	< 0.0075 U	< 3 U	--	< 0.3 U	< 0.3 U
Hexachloroethane	mg/kg	0.00016	SL-3	< 0.05 U	--	< 0.05 U	< 0.0025 U	< 1 U	--	< 0.1 U	< 0.1 U
Isophorone	mg/kg	0.58	SL-3	< 0.05 U	--	< 0.05 U	< 0.0025 U	< 1 U	--	< 0.1 U	< 0.1 U
Nitrobenzene	mg/kg	0.64	SL-3	**0.28**	--	**0.2**	< 0.0025 U	< 1 U	--	< 0.1 U	< 0.1 U
N-Nitrosodimethylamine	mg/kg	0.0015	SL-3	< 0.05 U	--	< 0.05 U	< 0.0025 U	< 1 U	--	< 0.1 U	< 0.1 U
N-Nitroso-di-n-propylamine	mg/kg	0.00055	SL-3	< 0.05 U	--	< 0.05 U	< 0.0025 U	< 1 U	--	< 0.1 U	< 0.1 U
N-Nitrosodiphenylamine	mg/kg	0.028	SL-8	< 0.05 U	--	< 0.05 U	< 0.0025 U	< 1 U	--	< 0.1 U	< 0.1 U
Pentachlorophenol	mg/kg	3.20E-05	SL-3	**0.27**	--	< 0.25 U	< 0.012 U	< 5 U	--	< 0.5 U	< 0.5 U
Phenol	mg/kg	0.42	SL-8	< 0.5 U	--	< 0.5 U	< 0.025 U	< 10 U	--	< 1 U	< 1 U
Pyridine	mg/kg	80	SL-1	--	--	--	--	--	--	--	--

Table I.3.B. Vadose Soil Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL

Location				SB-37				SB-38		SB-39	
Date				09/13/22	09/13/22	09/13/22	09/13/22	09/12/22	09/12/22	09/13/22	09/13/22
Sample				SB-37-0-1	SB-37-0-2-TIG	SB-37-1-2	SB-37-5-6	SB-38-0-1	SB-38-5-6	SB-39-0-1	SB-39-5-6
Depth				0 - 1 ft	0 - 2 ft	1 - 2 ft	5 - 6 ft	0 - 1 ft	5 - 6 ft	0 - 1 ft	5 - 6 ft
Geologic Unit				Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill
Analyte	Unit	Prelmiinary RI SL	Basis of SL								
Pesticides											
2,4'-DDD	mg/kg			--	--	--	--	--	--	--	--
2,4'-DDE	mg/kg			--	--	--	--	--	--	--	--
2,4'-DDT	mg/kg			--	--	--	--	--	--	--	--
4,4'-DDD	mg/kg	7.30E-06	SL-3	< 0.01 U	--	--	--	**0.14 J**	< 0.001 U	< 0.01 U	**0.016**
4,4'-DDE	mg/kg	1.50E-06	SL-3	< 0.01 U	--	--	--	**0.14 J**	< 0.001 U	< 0.01 U	**0.015**
4,4'-DDT	mg/kg	1.60E-05	SL-3	< 0.01 U	--	--	--	**0.57 J**	< 0.001 U	**1.7 J**	< 0.001 U
Aldrin	mg/kg	4.00E-08	SL-3	< 0.017 U	--	--	--	< 0.17 U	< 0.0017 U	< 0.017 U	< 0.0017 U
Alpha-BHC	mg/kg	1.90E-06	SL-3	< 0.005 U	--	--	--	< 0.05 U	< 0.0005 U	< 0.005 U	< 0.0005 U
Beta-BHC	mg/kg	6.60E-05	SL-3	< 0.005 U	--	--	--	< 0.05 U	< 0.0005 U	< 0.005 U	< 0.0005 U
Chlordane	mg/kg	2.30E-05	SL-3	--	--	--	--	--	--	--	--
cis-Chlordane	mg/kg	0.0001	SL-8	< 0.005 U	--	--	--	< 0.05 U	< 0.0005 U	< 0.005 U	< 0.0005 U
cis-Nonachlor	mg/kg			--	--	--	--	--	--	--	--
Delta-BHC	mg/kg	0.0048	SL-1	< 0.005 U	--	--	--	< 0.05 U	< 0.0005 U	< 0.005 U	< 0.0017 U
Dieldrin	mg/kg	3.60E-08	SL-3	< 0.01 U	--	--	--	< 0.1 U	< 0.001 U	< 0.01 U	< 0.001 U
Endosulfan I	mg/kg	0.0012	SL-3	< 0.005 U	--	--	--	< 0.05 U	< 0.0005 U	< 0.005 U	< 0.0005 U
Endosulfan II	mg/kg	0.0012	SL-3	< 0.01 U	--	--	--	< 0.1 U	< 0.001 U	< 0.01 U	< 0.001 U
Endosulfan Sulfate	mg/kg	2	SL-3	< 0.01 U	--	--	--	< 0.1 U	< 0.001 U	< 0.01 U	< 0.001 U
Endrin	mg/kg	0.00044	SL-3	< 0.01 U	--	--	--	< 0.1 U	< 0.001 U	< 0.01 U	**0.0092 J**
Endrin Aldehyde	mg/kg	0.0024	SL-3	< 0.01 U	--	--	--	< 0.1 U	< 0.001 U	< 0.01 U	< 0.001 U
Endrin ketone	mg/kg			< 0.01 U	--	--	--	< 0.1 U	< 0.001 U	< 0.01 U	< 0.001 U
Heptachlor	mg/kg	6.60E-08	SL-3	< 0.005 U	--	--	--	< 0.05 U	< 0.0005 U	< 0.005 U	< 0.0005 U
Heptachlor Epoxide	mg/kg	4.90E-07	SL-3	< 0.005 U	--	--	--	< 0.05 U	< 0.0005 U	< 0.005 U	< 0.0005 U
Lindane	mg/kg	0.0039	SL-3	< 0.005 U	--	--	--	< 0.05 U	< 0.0005 U	< 0.005 U	< 0.0005 U
Methoxychlor	mg/kg	0.032	SL-3	< 0.05 U	--	--	--	< 0.5 U	< 0.005 U	< 0.05 U	< 0.005 U
Mirex	mg/kg	0.0071	SL-3	--	--	--	--	--	--	--	--
Oxychlordane	mg/kg			--	--	--	--	--	--	--	--
Toxaphene	mg/kg	6.10E-05	SL-3	< 0.25 U	--	--	--	< 2.5 U	< 0.025 U	< 0.25 U	< 0.025 U
trans-Chlordane	mg/kg	0.0001	SL-8	< 0.017 U	--	--	--	< 0.17 U	< 0.0017 U	< 0.017 U	< 0.0017 U
trans-Nonachlor	mg/kg			--	--	--	--	--	--	--	--
Total Petroleum Hydrocarbons (TPH)											
Gasoline Range Organics	mg/kg	30	SL-3	**22**	--	**2.6 J**	**2.6 J**	**4.7 J**	< 5 U	< 5 U	**2.1 J**
Diesel Range Organics	mg/kg	2000	SL-9	**90**	--	**220 J**	< 5 UJ	**440**	< 5 UJ	**350**	**18 J**
Motor Oil Range Organics	mg/kg	2000	SL-9	**630**	--	**650**	< 25 U	**1700**	< 25 U	**1500**	**99**
Diesel and Oil Extended Range Organics	mg/kg	2000	SL-9	**720**	--	**870 J**	< 25 UJ	**2140**	< 25 UJ	**1850**	**117 J**
Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)											
Benzene	mg/kg	0.0088	SL-3	< 0.001 U	--	--	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U
Toluene	mg/kg	0.72	SL-3	**0.0019**	--	--	< 0.001 U	**0.0044**	< 0.001 U	< 0.001 U	**0.0018**
Ethylbenzene	mg/kg	0.18	SL-3	**0.0014**	--	--	< 0.001 U	**0.0013**	< 0.001 U	< 0.001 U	**0.0015**
Total Xylenes	mg/kg	0.94	SL-3	**0.0158**	--	--	< 0.002 U	**0.0134**	< 0.002 U	< 0.002 U	**0.0063**
Volatile Organic Compounds (VOCs)											
1,1,1,2-Tetrachloroethane	mg/kg	38	SL-1	< 0.05 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
1,1,1-Trichloroethane	mg/kg	370	SL-3	**0.005**	--	--	< 0.002 U	**0.14**	< 0.002 U	< 0.002 U	< 0.002 U
1,1,2 - Trichlorotrifluoroethane	mg/kg	2400000	SL-1	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	0.0017	SL-3	< 0.05 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
1,1,2-Trichloroethane	mg/kg	0.005	SL-3	< 0.005 U	--	--	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U
1,1-Dichloroethane	mg/kg	180	SL-1	< 0.002 U	--	--	< 0.002 U	**0.07**	< 0.002 U	< 0.002 U	< 0.002 U
1,1-Dichloroethene	mg/kg	11	SL-9	< 0.001 U	--	--	< 0.001 U	**0.0011**	< 0.001 U	< 0.001 U	< 0.001 U
1,1-Dichloropropene	mg/kg			< 0.05 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
1,2,3-Trichlorobenzene	mg/kg	64	SL-1	< 0.25 U	--	--	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U
1,2,3-Trichloropropane	mg/kg	0.0063	SL-1	< 0.05 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
1,2,4-Trichlorobenzene	mg/kg	0.0014	SL-3	< 0.01 U	--	< 0.05 U	< 0.0025 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.1 U
1,2,4-Trimethylbenzene	mg/kg	800	SL-1	< 0.05 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
1,2-Dibromo-3-chloropropane	mg/kg	0.23	SL-1	< 0.5 U	--	--	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromoethane (EDB)	mg/kg	0.5	SL-1	< 0.005 U	--	--	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U
1,2-Dichlorobenzene	mg/kg	0.035	SL-8	< 0.05 U	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.1 U
1,2-Dichloroethane (EDC)	mg/kg	0.35	SL-3	< 0.002 U	--	--	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U
1,2-Dichloropropane	mg/kg	0.016	SL-3	< 0.05 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
1,3,5-Trimethylbenzene	mg/kg	800	SL-1	< 0.05 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
1,3-Dichlorobenzene	mg/kg	0.023	SL-3	< 0.05 U	--	< 0.05 U	< 0.0025 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.1 U
1,3-Dichloropropane	mg/kg	0.0066	SL-3	< 0.05 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
1,4-Dichloro-2-Butene	mg/kg			--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	0.11	SL-8	< 0.05 U	--	< 0.05 U	< 0.0025 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.1 U
2,2-Dichloropropane	mg/kg			< 0.05 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
2-Butanone	mg/kg	350	SL-9	< 1 U	--	--	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
2-Chloroethyl Vinyl Ether	mg/kg			--	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	1600	SL-1	< 0.05 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
2-Hexanone	mg/kg	400	SL-1	< 0.5 U	--	--	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Pentanone	mg/kg			--	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	1600	SL-1	< 0.05 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
4-Methyl-2-pentanone	mg/kg	6400	SL-1	< 1 U	--	--	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Acetone	mg/kg	1.2	SL-9	< 5 U	--	--	< 5 U	< 5 U	< 5 UJ	< 5 U	< 5 U
Acrolein	mg/kg	0.0044	SL-3	--	--	--	--	--	--	--	--
Acrylonitrile	mg/kg	0.00012	SL-3	--	--	--	--	--	--	--	--
Bromobenzene	mg/kg	640	SL-1	< 0.05 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
Bromochloromethane	mg/kg			--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	0.013	SL-3	< 0.005 U	--	--	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U
Bromoform	mg/kg	0.078	SL-3	< 0.05 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
Bromomethane	mg/kg	0.24	SL-9	< 0.1 U	--	--	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U
Carbon Disulfide	mg/kg	0.81	SL-9	--	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	0.0029	SL-3	< 0.005 U	--	--	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U
Chlorobenzene	mg/kg	1.7	SL-3	< 0.05 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
Chloroethane	mg/kg			< 0.1 U	--	--	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U
Chloroform	mg/kg	0.81	SL-3	< 0.05 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
Chloromethane	mg/kg			< 0.5 U	--	--	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene (DCE)	mg/kg	24	SL-9	< 0.001 U	--	--	< 0.001 U	**0.0018**	< 0.001 U	< 0.001 U	< 0.001 U
cis-1,3-Dichloropropene	mg/kg	0.0056	SL-3	< 0.01 U	--	--	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Dibromochloromethane	mg/kg	0.01	SL-3	< 0.01 U	--	--	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Dibromomethane	mg/kg	800	SL-1	< 0.05 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
Dichlorodifluoromethane	mg/kg	16000	SL-1	< 0.5 U	--	--	< 0.5 UJ	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene	mg/kg	8000	SL-1	< 0.05 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
m,p-Xylenes	mg/kg			**0.0092**	--	--	< 0.002 U	**0.0099**	< 0.002 U	< 0.002 U	**0.0042**
Methyl tert-butyl ether (MTBE)	mg/kg	560	SL-1	< 0.001 U	--	--	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U
Methylene Chloride	mg/kg	0.43	SL-3	**0.34**	--	--	R	< 0.2 U	< 0.2 U	**0.24**	R
Methyliodide	mg/kg			--	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	4000	SL-1	--	--	--	--	--	--	--	--
n-Hexane	mg/kg	4800	SL-1	< 0.25 U	--	--	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U
n-Propylbenzene	mg/kg	8000	SL-1	< 0.05 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
o-Xylene	mg/kg			**0.0066**	--	--	< 0.001 U	**0.0035**	< 0.001 U	< 0.001 U	**0.0021**
p-Isopropyltoluene	mg/kg	320	SL-1	< 0.05 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
sec-Butylbenzene	mg/kg	8000	SL-1	< 0.05 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
Styrene	mg/kg	4.7	SL-9	< 0.05 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
tert-Butylbenzene	mg/kg	8000	SL-1	< 0.05 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
Tetrachloroethene (PCE)	mg/kg	0.029	SL-3	**0.024**	--	--	< 0.001 U	**0.023**	< 0.001 U	**0.041**	**0.0054**
trans-1,2-Dichloroethene	mg/kg	0.78	SL-3	< 0.002 U	--	--	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U
trans-1,3-Dichloropropene	mg/kg	0.0056	SL-3	< 0.01 U	--	--	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Trichloroethene (TCE)	mg/kg	0.0044	SL-3	**0.0022**	--	--	< 0.001 U	**0.0048**	< 0.001 U	< 0.001 U	< 0.001 U
Trichlorofluoromethane	mg/kg	24000	SL-1	< 0.5 U	--	--	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Acetate	mg/kg	80000	SL-1	--	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	0.0011	SL-3	< 0.001 U	--	--	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U
Conventionals											
Total Organic Carbon	%			--	--	--	--	--	--	--	--
Total Solids	%			--	**71.5**	--	--	--	--	--	--

Table I.3.B. Vadose Soil Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL

				Location	SB-40			SB-41		SB-42		SB-43	SS-01	SS-02
				Date	09/26/22	09/26/22	09/26/22	09/13/22	09/13/22	09/22/22	09/22/22	09/26/22	02/09/16	02/09/16
				Sample	SB-40-0-1	SB-40-0-1-TIG	SB-40-5-6	SB-41-0-1	SB-41-5-6	SB-42-0-1	SB-42-3.5-4.5	SB-43-2.5-3.5	SPM-SS-01-02092016	SPM-SS-02-02092016
				Depth	0 - 1 ft	0 - 1 ft	5 - 6 ft	0 - 1 ft	5 - 6 ft	0 - 1 ft	3.5 - 4.5 ft	2.5 - 3.5 ft	0 - 1.6 ft	0 - 1.6 ft
				Geologic Unit	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill
Analyte	Unit	Prelmiinary RI SL	Basis of SL											
Metals, Total														
Arsenic	mg/kg	7.3	SL-10	**11.8**	--	**1.59**	**4.28**	**2.35 J**	**7.92**	**8.94**	**2.61**	--	--
Barium	mg/kg	250	SL-10	--	--	--	--	--	--	**551**	--	--	--
Cadmium	mg/kg	0.77	SL-10	**0.798**	--	< 0.2 U	**0.484**	< 0.2 U	**1.23**	**43.8**	**2.5**	--	--
Chromium	mg/kg	67	SL-9	**13.1**	--	**7.34 J**	**23.1**	**6.15**	**36.4**	**185**	**77.1**	--	--
Copper	mg/kg	36	SL-10	**41.5**	--	**10.2 J**	**74.3**	**9.14**	**1200**	**64.2**	**52.9**	--	--
Lead	mg/kg	120	SL-9	**208**	--	**5.32**	**65.5**	**5.63**	**276**	**1420**	**851**	--	--
Mercury	mg/kg	0.07	SL-10	**0.11**	--	**0.046**	**0.049**	--	**9.5**	**4.2**	**1.8**	--	--
Nickel	mg/kg	48	SL-10	**9.89**	--	**4.87**	**12.5**	**5.05**	**36.3**	**18.6**	**7.37**	--	--
Selenium	mg/kg	0.78	SL-10	--	--	--	--	--	--	**9.46**	--	--	--
Silver	mg/kg	0.61	SL-10	--	--	--	--	--	--	< 1 U	--	--	--
Zinc	mg/kg	100	SL-3	**93.2**	--	**18.6**	**77.4**	**26.5**	**242**	**744**	**763**	--	--
Butyl Tins														
Dibutyltin Ion	mg/kg			**0.00771**	--	**0.00239**	**0.00787**	< 0.00576 U	**0.977**	**0.0178**	**0.00604**	--	--
Monobutyltin	mg/kg			**0.0136**	--	**0.00404**	**0.00902**	< 0.00407 U	**0.694**	**0.0133**	**0.0041**	--	--
Tetrabutyltin	mg/kg			< 0.00498 U	--	< 0.00495 U	< 0.00494 U	< 0.00498 U	< 0.00496 U	< 0.015 U	< 0.005 U	--	--
Tributyltin Ion	mg/kg	0.0021	SL-8	**0.00534**	--	**0.00126**	**0.00236 J**	< 0.00385 U	**0.582**	< 0.0116 U	< 0.00386 U	--	--
Polychlorinated Biphenyl (PCB) Aroclors														
Total PCB Aroclors (ND = 0)	mg/kg	1.10E-05	SL-3	**1.32**	--	**0.028**	**0.145**	< 0.004 U	**50**	**11.3**	**8.1**	**0.0075**	**0.014**
Polychlorinated Biphenyl (PCB) Congeners														
Total PCB Congeners (ND = 0)	mg/kg	1.10E-05	SL-3	**1.27**	**1.57 J**	--	--	--	**60.9 J**	--	--	**0.0206 J**	**0.0308 J**
Total PCB TEQ (ND = 0)	mg/kg	6.90E-09	SL-3	**3.73E-05**	**3.4E-05 J**	--	--	--	**1.02E-03 J**	--	--	**7.37E-07 J**	**8.84E-07 J**
Dioxins/Furans														
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	5.20E-06	SL-10	**3.00E-05 J**	**3.64E-05 J**	--	**1.53E-05 J**	--	**1.35E-03 J**	--	--	--	--
2,3,7,8-TCDD	mg/kg	5.20E-06	SL-10	**7.46E-07**	**9.28E-07**	--	**2.76E-07**	--	**2.43E-06**	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)														
1-Methylnaphthalene	mg/kg	20	SL-1	< 0.01 U	--	< 0.005 U	< 0.01 U	< 0.0005 U	< 0.01 U	**0.88**	< 0.05 U	--	--
2-Methylnaphthalene	mg/kg	0.67	SL-8	< 0.01 U	--	< 0.005 U	< 0.01 U	< 0.0005 U	< 0.01 U	**1.3**	< 0.05 U	--	--
Acenaphthene	mg/kg	0.5	SL-8	< 0.01 U	--	< 0.005 U	< 0.01 U	< 0.0005 U	< 0.01 U	**0.12**	**0.16**	--	--
Acenaphthylene	mg/kg	1.3	SL-8	< 0.01 U	--	< 0.005 U	< 0.01 U	< 0.0005 U	< 0.01 U	< 0.04 U	< 0.05 U	--	--
Anthracene	mg/kg	0.96	SL-8	< 0.01 U	--	< 0.005 U	< 0.01 U	< 0.0005 U	< 0.01 U	**0.058**	**0.24**	--	--
Benzo(g,h,i)perylene	mg/kg	0.67	SL-8	**0.028**	--	< 0.005 U	**0.033 J**	**0.0006**	**0.14**	**0.04**	**0.44**	--	--
Fluoranthene	mg/kg	1.7	SL-8	**0.038**	--	< 0.005 U	**0.032**	**0.0014**	**0.059**	**0.16**	**1.6**	--	--
Fluorene	mg/kg	0.54	SL-8	< 0.01 U	--	< 0.005 U	< 0.01 U	< 0.0005 U	< 0.01 U	**0.23**	**0.14**	--	--
Naphthalene	mg/kg	0.039	SL-3	< 0.01 U	--	< 0.005 U	< 0.005 U	< 0.0005 U	< 0.01 U	**1.3**	< 0.05 U	--	--
Phenanthrene	mg/kg	1.5	SL-8	**0.018**	--	< 0.005 U	**0.014**	**0.001**	**0.04**	**0.43**	**1.2**	--	--
Pyrene	mg/kg	2.6	SL-8	**0.049**	--	< 0.005 U	**0.055**	**0.0014**	**0.067**	**0.24**	**1.5**	--	--
Benz(a)anthracene	mg/kg	0.73	SL-9	**0.019**	--	< 0.005 U	**0.018**	**0.00064**	**0.03**	**0.056**	**0.75**	--	--
Benzo(a)pyrene	mg/kg	0.00031	SL-3	**0.029**	--	**0.0028 J**	**0.035 J**	**0.0012**	**0.076**	**0.046**	**0.86**	--	--
Benzo(b)fluoranthene	mg/kg	44	SL-9	**0.045**	--	< 0.005 U	**0.06 J**	**0.0023**	**0.11**	**0.13**	**1.1**	--	--
Benzo(j)fluoranthene	mg/kg			--	--	--	--	--	--	--	--	--	--
Benzo(j,k)fluoranthene	mg/kg			--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	mg/kg	71	SL-9	**0.013**	--	< 0.005 U	**0.017 J**	**0.00058**	**0.031**	< 0.04 U	**0.33**	--	--
Chrysene	mg/kg	1.4	SL-8	**0.033**	--	**0.0088**	**0.032**	**0.0011**	**0.066**	**0.21**	**0.71**	--	--
Dibenzo(a,h)anthracene	mg/kg	0.23	SL-8	< 0.01 U	--	< 0.005 U	< 0.01 J	< 0.0005 U	**0.03**	< 0.04 U	**0.081**	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	0.6	SL-8	**0.026**	--	< 0.005 U	**0.031 J**	**0.0006**	**0.18**	**0.048**	**0.55**	--	--
Total Benzofluoranthenes	mg/kg	1.1	SL-9	**0.058**	--	< 0.005 U	**0.077 J**	**0.00288**	**0.141**	**0.15**	**1.43**	--	--
Total HPAHs (ND = 1/2 RDL)	mg/kg	1.1	SL-9	**0.285**	--	**0.0316 J**	**0.318 J**	**0.0101**	**0.789**	**0.97**	**7.92**	--	--
Total LPAHs (ND = 1/2 RDL)	mg/kg	5.2	SL-8	**0.043**	--	< 0.005 U	**0.0365**	**0.00225**	**0.065**	**2.16**	**1.79**	--	--
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	0.00031	SL-3	**0.0401**	--	**0.00414 J**	**0.0484 J**	**0.00165**	**0.115**	**0.0755**	**1.15**	--	--
Semivolatile Organic Compounds (SVOCs)														
1,2-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	mg/kg	0.00068	SL-3	< 0.05 U	--	--	< 0.05 U	--	< 0.05 U	--	< 0.25 U	--	--
1,3-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--	--
1,4-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	mg/kg	2400	SL-1	--	--	--	--	--	--	--	--	--	--
2,3,5,6-Tetrachlorophenol	mg/kg			--	--	--	--	--	--	--	--	--	--
2,3-Dichloroaniline	mg/kg			--	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	mg/kg	22	SL-3	< 0.5 U	--	--	< 0.5 U	--	< 0.5 U	< 2 U	< 2.5 U	--	--
2,4,6-Trichlorophenol	mg/kg	0.0033	SL-3	< 0.5 U	--	--	< 0.5 U	--	< 0.5 U	< 2 U	< 2.5 U	--	--
2,4-Dichlorophenol	mg/kg	0.069	SL-3	< 0.5 U	--	--	< 0.5 U	--	< 0.5 U	< 2 U	< 2.5 U	--	--
2,4-Dimethylphenol	mg/kg	0.029	SL-8	< 0.5 U	--	--	< 0.5 U	--	< 0.5 U	< 2 U	< 2.5 U	--	--
2,4-Dinitrophenol	mg/kg	0.061	SL-9	< 1.5 U	--	--	< 1.5 U	--	< 1.5 U	< 6 U	< 7.5 U	--	--
2,4-Dinitrotoluene	mg/kg	0.0028	SL-3	< 0.25 U	--	--	< 0.25 U	--	< 0.25 U	< 1 U	< 1.2 U	--	--
2,6-Dinitrotoluene	mg/kg	0.67	SL-1	< 0.25 U	--	--	< 0.25 U	--	< 0.25 U	< 1 U	< 1.2 U	--	--
2-Chloronaphthalene	mg/kg	5.4	SL-3	< 0.05 U	--	--	< 0.05 U	--	< 0.05 U	< 0.2 U	< 0.25 U	--	--
2-Chlorophenol	mg/kg	0.2	SL-3	< 0.5 U	--	--	< 0.5 U	--	< 0.5 U	< 2 U	< 2.5 U	--	--
2-Methylphenol	mg/kg	0.063	SL-8	< 0.5 U	--	--	< 0.5 U	--	< 0.5 U	< 2 U	< 2.5 U	--	--
2-Nitroaniline	mg/kg	800	SL-1	< 0.25 U	--	--	< 0.25 U	--	< 0.25 U	< 1 U	< 1.2 U	--	--
2-Nitrophenol	mg/kg			< 0.5 U	--	--	< 0.5 U	--	< 0.5 U	< 2 U	< 2.5 U	--	--
3 & 4 Methylphenol	mg/kg			< 1 U	--	--	< 1 U	--	< 1 U	< 4 U	< 5 U	--	--
3,3'-Dichlorobenzidine	mg/kg	2.20E-04	SL-3	< 0.5 U	--	--	< 0.5 U	--	< 0.5 U	--	< 2.5 U	--	--
3-Nitroaniline	mg/kg			< 5 U	--	--	< 5 U	--	< 5 U	< 20 U	< 25 U	--	--
4,6-Dinitro-2-methylphenol	mg/kg	0.13	SL-3	< 1.5 U	--	--	< 1.5 U	--	< 1.5 U	< 6 U	< 7.5 U	--	--
4-Bromophenyl phenyl ether	mg/kg			< 0.05 U	--	--	< 0.05 U	--	< 0.05 U	< 0.2 U	< 0.25 U	--	--
4-Chloro-3-methylphenol	mg/kg	0.5	SL-3	< 0.5 U	--	--	< 0.5 U	--	< 0.5 U	< 2 U	< 2.5 U	--	--
4-Chloroaniline	mg/kg	5	SL-1	< 5 U	--	--	< 5 U	--	< 5 U	< 20 U	< 25 U	--	--
4-Chlorophenyl phenyl ether	mg/kg			< 0.05 U	--	--	< 0.05 U	--	< 0.05 U	< 0.2 U	< 0.25 U	--	--
4-Methylphenol	mg/kg	0.67	SL-8	< 1 U	--	--	< 1 U	--	< 1 U	< 4 U	< 5 U	--	--
4-Nitroaniline	mg/kg	22	SL-9	< 5 U	--	--	< 5 U	--	< 5 U	< 20 U	< 25 U	--	--
4-Nitrophenol	mg/kg			< 1.5 U	--	--	< 1.5 U	--	< 1.5 U	< 6 U	< 7.5 U	--	--
Aniline	mg/kg	180	SL-1	--	--	--	--	--	--	--	--	--	--
Benzoic acid	mg/kg	0.65	SL-8	< 2.5 U	--	--	< 2.5 U	--	< 2.5 U	< 10 U	< 12 U	--	--
Benzyl alcohol	mg/kg	0.057	SL-8	< 0.5 U	--	--	< 0.5 U	--	< 0.5 U	< 2 U	< 2.5 U	--	--
Benzyl butyl phthalate	mg/kg	0.0036	SL-3	< 0.5 U	--	--	< 0.5 U	--	< 0.5 U	< 2 U	< 2.5 U	--	--
Bis(2-chloro-1-methylethyl) ether	mg/kg	0.59	SL-3	< 0.05 U	--	--	< 0.05 U	--	< 0.05 U	< 0.2 U	< 0.25 U	--	--
Bis(2-chloroethoxy)methane	mg/kg	240	SL-1	< 0.05 U	--	--	< 0.05 U	--	< 0.05 U	< 0.2 U	< 0.25 U	--	--
Bis(2-chloroethyl) ether	mg/kg	0.00033	SL-3	< 0.05 U	--	--	< 0.05 U	--	< 0.05 U	< 0.2 U	< 0.25 U	--	--
bis(2-Chloroisopropyl)ether	mg/kg			--	--	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) adipate	mg/kg	830	SL-1	--	--	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate	mg/kg	0.02	SL-9	< 0.8 U	--	--	< 0.8 U	--	< 0.8 U	< 3.2 U	< 4 U	--	--
Carbazole	mg/kg	79	SL-9	< 0.05 UJ	--	--	< 0.05 U	--	< 0.05 U	< 0.2 UJ	< 0.25 UJ	--	--
Dibenzofuran	mg/kg	0.54	SL-8	< 0.05 U	--	--	< 0.05 U	--	< 0.05 U	< 0.2 U	< 0.25 U	--	--
Diethyl phthalate	mg/kg	0.2	SL-8	< 0.5 U	--	--	< 0.5 U	--	< 0.5 U	< 2 U	< 2.5 U	--	--
Dimethyl phthalate	mg/kg	0.071	SL-8	< 0.5 U	--	--	< 0.5 U	--	**0.76**	< 2 U	< 2.5 U	--	--
Di-n-butyl phthalate	mg/kg	0.011	SL-9	< 0.5 U	--	--	< 0.5 U	--	< 0.5 U	< 2 U	< 2.5 U	--	--
Di-n-octyl phthalate	mg/kg	0.91	SL-9	< 0.5 U	--	--	< 0.5 J	--	< 0.5 U	< 2 U	< 2.5 U	--	--
Hexachlorobenzene	mg/kg	8.00E-06	SL-3	< 0.05 U	--	--	< 0.05 U	--	< 0.05 U	< 0.2 U	< 0.25 U	--	--
Hexachlorobutadiene	mg/kg	0.00021	SL-3	< 0.05 U	--	--	< 0.01 U	--	< 0.05 U	< 0.01 U	< 0.25 U	--	--
Hexachlorocyclopentadiene	mg/kg	0.032	SL-3	< 0.15 U	--	--	< 0.15 U	--	< 0.15 U	< 0.6 U	< 0.75 U	--	--
Hexachloroethane	mg/kg	0.00016	SL-3	< 0.05 U	--	--	< 0.05 U	--	< 0.05 U	< 0.2 U	< 0.25 U	--	--
Isophorone	mg/kg	0.58	SL-3	< 0.05 U	--	--	< 0.05 U	--	< 0.05 U	< 0.2 U	< 0.25 U	--	--
Nitrobenzene	mg/kg	0.64	SL-3	< 0.05 U	--	--	< 0.05 U	--	< 0.05 U	< 0.2 U	< 0.25 U	--	--
N-Nitrosodimethylamine	mg/kg	0.0015	SL-3	< 0.0025 U	--	--	< 0.05 U	--	< 0.05 U	< 0.2 U	< 0.25 U	--	--
N-Nitroso-di-n-propylamine	mg/kg	0.00055	SL-3	< 0.05 U	--	--	< 0.05 U	--	< 0.05 U	< 0.2 U	< 0.25 U	--	--
N-Nitrosodiphenylamine	mg/kg	0.028	SL-8	< 0.05 UJ	--	--	< 0.05 U	--	< 0.05 U	< 0.2 U	< 0.25 UJ	--	--
Pentachlorophenol	mg/kg	3.20E-05	SL-3	< 0.25 U	--	--	< 0.25 U	--	**0.39**	< 1 U	< 1.2 U	--	--
Phenol	mg/kg	0.42	SL-8	< 0.5 U	--	--	< 0.5 U	--	< 0.5 U	< 2 U	< 2.5 U	--	--
Pyridine	mg/kg	80	SL-1	--	--	--	--	--	--	--	--	--	--

Table I.3.B. Vadose Soil Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL

Location				SB-40			SB-41		SB-42		SB-43	SS-01	SS-02
Date				09/26/22	09/26/22	09/26/22	09/13/22	09/13/22	09/22/22	09/22/22	09/26/22	02/09/16	02/09/16
Sample				SB-40-0-1	SB-40-0-1-TIG	SB-40-5-6	SB-41-0-1	SB-41-5-6	SB-42-0-1	SB-42-3.5-4.5	SB-43-2.5-3.5	SPM-SS-01-02092016	SPM-SS-02-02092016
Depth				0 - 1 ft	0 - 1 ft	5 - 6 ft	0 - 1 ft	5 - 6 ft	0 - 1 ft	3.5 - 4.5 ft	2.5 - 3.5 ft	0 - 1.6 ft	0 - 1.6 ft
Geologic Unit				Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill
Analyte	Unit	Prelmiinary RI SL	Basis of SL										
Pesticides													
2,4'-DDD	mg/kg			--	--	--	--	--	--	--	--	--	--
2,4'-DDE	mg/kg			--	--	--	--	--	--	--	--	--	--
2,4'-DDT	mg/kg			--	--	--	--	--	--	--	--	--	--
4,4'-DDD	mg/kg	7.30E-06	SL-3	< 0.001 U	--	< 0.001 U	< 0.02 U	--	< 0.1 U	< 0.05 U	< 0.001 UJ	--	--
4,4'-DDE	mg/kg	1.50E-06	SL-3	**0.0019**	--	< 0.001 U	< 0.02 U	--	**0.23**	< 0.05 U	**0.0042 J**	--	--
4,4'-DDT	mg/kg	1.60E-05	SL-3	< 0.001 U	--	< 0.001 U	< 0.02 U	--	< 0.1 U	< 0.05 U	< 0.001 UJ	--	--
Aldrin	mg/kg	4.00E-08	SL-3	< 0.0017 U	--	< 0.0017 U	< 0.034 U	--	< 0.17 U	< 0.085 U	< 0.0017 UJ	--	--
Alpha-BHC	mg/kg	1.90E-06	SL-3	< 0.0005 U	--	< 0.0005 U	< 0.01 U	--	< 0.05 U	< 0.025 U	< 0.0005 UJ	--	--
Beta-BHC	mg/kg	6.60E-05	SL-3	< 0.0005 U	--	< 0.0005 U	< 0.01 U	--	< 0.05 U	< 0.025 U	< 0.0005 UJ	--	--
Chlordane	mg/kg	2.30E-05	SL-3	--	--	--	--	--	--	--	--	--	--
cis-Chlordane	mg/kg	0.0001	SL-8	**0.0087**	--	< 0.0005 U	< 0.01 U	--	< 0.05 U	< 0.025 U	< 0.0005 UJ	--	--
cis-Nonachlor	mg/kg			--	--	--	--	--	--	--	--	--	--
Delta-BHC	mg/kg	0.0048	SL-1	< 0.0017 UJ	--	< 0.0017 UJ	< 0.01 U	--	< 0.17 UJ	< 0.085 UJ	< 0.0017 UJ	--	--
Dieldrin	mg/kg	3.60E-08	SL-3	**0.0094**	--	< 0.001 U	< 0.02 U	--	**0.33**	< 0.05 U	< 0.001 UJ	--	--
Endosulfan I	mg/kg	0.0012	SL-3	< 0.0005 U	--	< 0.0005 U	< 0.01 U	--	< 0.05 U	< 0.025 U	< 0.0005 UJ	--	--
Endosulfan II	mg/kg	0.0012	SL-3	< 0.001 U	--	< 0.001 U	< 0.02 U	--	< 0.1 U	< 0.05 U	< 0.001 UJ	--	--
Endosulfan Sulfate	mg/kg	2	SL-3	< 0.001 U	--	< 0.001 U	< 0.02 U	--	< 0.1 U	< 0.05 U	< 0.001 UJ	--	--
Endrin	mg/kg	0.00044	SL-3	< 0.001 U	--	< 0.001 U	< 0.02 U	--	< 0.1 U	< 0.05 U	< 0.001 UJ	--	--
Endrin Aldehyde	mg/kg	0.0024	SL-3	< 0.001 U	--	< 0.001 U	< 0.02 U	--	< 0.1 U	< 0.05 U	< 0.001 UJ	--	--
Endrin ketone	mg/kg			< 0.001 U	--	< 0.001 U	< 0.02 U	--	< 0.1 U	< 0.05 U	< 0.001 UJ	--	--
Heptachlor	mg/kg	6.60E-08	SL-3	< 0.0005 U	--	< 0.0005 U	< 0.01 U	--	< 0.05 U	< 0.025 U	< 0.0005 UJ	--	--
Heptachlor Epoxide	mg/kg	4.90E-07	SL-3	< 0.0005 U	--	< 0.0005 U	< 0.01 U	--	< 0.05 U	< 0.025 U	< 0.0005 UJ	--	--
Lindane	mg/kg	0.0039	SL-3	< 0.0005 U	--	< 0.0005 U	< 0.01 U	--	< 0.05 U	< 0.025 U	< 0.0005 UJ	--	--
Methoxychlor	mg/kg	0.032	SL-3	< 0.005 U	--	< 0.005 U	< 0.1 U	--	< 0.5 U	< 0.25 U	< 0.005 UJ	--	--
Mirex	mg/kg	0.0071	SL-3	--	--	--	--	--	--	--	--	--	--
Oxychlordane	mg/kg			--	--	--	--	--	--	--	--	--	--
Toxaphene	mg/kg	6.10E-05	SL-3	< 0.025 U	--	< 0.025 U	< 0.5 U	--	< 2.5 U	< 1.2 U	< 0.025 UJ	--	--
trans-Chlordane	mg/kg	0.0001	SL-8	**0.014**	--	< 0.0017 U	< 0.034 U	--	< 0.17 U	< 0.085 U	< 0.0017 UJ	--	--
trans-Nonachlor	mg/kg			--	--	--	--	--	--	--	--	--	--
Total Petroleum Hydrocarbons (TPH)													
Gasoline Range Organics	mg/kg	30	SL-3	< 5 U	--	--	< 5 U	< 5 U	< 5 U	**570**	**2.2 J**	--	--
Diesel Range Organics	mg/kg	2000	SL-9	**11**	--	--	**18**	**42 J**	**93**	**2200**	**710**	--	--
Motor Oil Range Organics	mg/kg	2000	SL-9	**160**	--	--	**280**	**180**	**220**	**4100**	**2600**	--	--
Diesel and Oil Extended Range Organics	mg/kg	2000	SL-9	**171**	--	--	**298**	**222 J**	**313**	**6300**	**3310**	--	--
Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)													
Benzene	mg/kg	0.0088	SL-3	< 0.001 U	--	--	< 0.001 U	--	**0.012**	**0.0095**	< 0.001 U	--	--
Toluene	mg/kg	0.72	SL-3	< 0.001 U	--	--	< 0.001 U	--	**0.019**	**0.14**	< 0.001 U	--	--
Ethylbenzene	mg/kg	0.18	SL-3	< 0.001 U	--	--	< 0.001 U	--	**0.0044**	**3.9**	< 0.001 U	--	--
Total Xylenes	mg/kg	0.94	SL-3	< 0.002 U	--	--	< 0.002 U	--	**0.037**	**25.2**	< 0.002 U	--	--
Volatile Organic Compounds (VOCs)													
1,1,1,2-Tetrachloroethane	mg/kg	38	SL-1	< 0.05 U	--	--	< 0.05 U	--	< 0.05 U	< 0.05 U	< 0.05 U	--	--
1,1,1-Trichloroethane	mg/kg	370	SL-3	< 0.002 U	--	--	< 0.002 U	--	< 0.002 U	< 0.002 U	**0.007**	--	--
1,1,2 - Trichlorotrifluoroethane	mg/kg	2400000	SL-1	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	0.0017	SL-3	< 0.05 U	--	--	< 0.05 U	--	< 0.05 U	< 0.05 U	< 0.05 U	--	--
1,1,2-Trichloroethane	mg/kg	0.005	SL-3	< 0.005 U	--	--	< 0.005 U	--	< 0.005 U	< 0.005 U	< 0.005 U	--	--
1,1-Dichloroethane	mg/kg	180	SL-1	< 0.002 U	--	--	< 0.002 U	--	< 0.002 U	**0.0038**	< 0.002 U	--	--
1,1-Dichloroethene	mg/kg	11	SL-9	< 0.001 U	--	--	< 0.001 U	--	< 0.001 U	< 0.001 U	< 0.001 U	--	--
1,1-Dichloropropene	mg/kg			< 0.05 U	--	--	< 0.05 U	--	< 0.05 U	< 0.05 U	< 0.05 U	--	--
1,2,3-Trichlorobenzene	mg/kg	64	SL-1	< 0.25 U	--	--	< 0.25 U	--	< 0.25 U	< 0.25 U	< 0.25 U	--	--
1,2,3-Trichloropropane	mg/kg	0.0063	SL-1	< 0.05 U	--	--	< 0.05 U	--	< 0.05 U	< 0.05 U	< 0.05 U	--	--
1,2,4-Trichlorobenzene	mg/kg	0.0014	SL-3	< 0.05 U	--	--	< 0.01 U	--	< 0.01 U	< 0.01 U	< 0.01 U	--	--
1,2,4-Trimethylbenzene	mg/kg	800	SL-1	< 0.05 U	--	--	< 0.05 U	--	< 0.05 U	**4**	< 0.05 U	--	--
1,2-Dibromo-3-chloropropane	mg/kg	0.23	SL-1	< 0.5 U	--	--	< 0.5 U	--	< 0.5 U	< 0.5 U	< 0.5 U	--	--
1,2-Dibromoethane (EDB)	mg/kg	0.5	SL-1	< 0.005 U	--	--	< 0.005 U	--	< 0.005 U	< 0.005 U	< 0.005 U	--	--
1,2-Dichlorobenzene	mg/kg	0.035	SL-8	< 0.05 U	--	--	< 0.05 U	--	< 0.05 U	< 0.05 U	< 0.25 U	--	--
1,2-Dichloroethane (EDC)	mg/kg	0.35	SL-3	< 0.002 U	--	--	< 0.002 U	--	< 0.002 U	< 0.002 U	< 0.002 U	--	--
1,2-Dichloropropane	mg/kg	0.016	SL-3	< 0.05 U	--	--	< 0.05 U	--	< 0.05 U	< 0.05 U	< 0.05 U	--	--
1,3,5-Trimethylbenzene	mg/kg	800	SL-1	< 0.05 U	--	--	< 0.05 U	--	< 0.05 U	**1.8**	< 0.05 U	--	--
1,3-Dichlorobenzene	mg/kg	0.023	SL-3	< 0.05 U	--	--	< 0.05 U	--	< 0.05 U	< 0.05 U	< 0.25 U	--	--
1,3-Dichloropropane	mg/kg	0.0066	SL-3	< 0.05 U	--	--	< 0.05 U	--	< 0.05 U	< 0.05 U	< 0.05 U	--	--
1,4-Dichloro-2-Butene	mg/kg			--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	0.11	SL-8	< 0.05 U	--	--	< 0.05 U	--	< 0.05 U	< 0.05 U	< 0.05 U	--	--
2,2-Dichloropropane	mg/kg			< 0.05 U	--	--	< 0.05 U	--	< 0.05 U	< 0.05 U	< 0.05 U	--	--
2-Butanone	mg/kg	350	SL-9	< 1 U	--	--	< 1 U	--	< 1 U	< 1 U	< 1 U	--	--
2-Chloroethyl Vinyl Ether	mg/kg			--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	1600	SL-1	< 0.05 U	--	--	< 0.05 U	--	< 0.05 U	< 0.05 U	< 0.05 U	--	--
2-Hexanone	mg/kg	400	SL-1	< 0.5 U	--	--	< 0.5 U	--	< 0.5 U	< 0.5 U	< 0.5 U	--	--
2-Pentanone	mg/kg			--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	1600	SL-1	< 0.05 U	--	--	< 0.05 U	--	< 0.05 U	< 0.05 U	< 0.05 U	--	--
4-Methyl-2-pentanone	mg/kg	6400	SL-1	< 1 U	--	--	< 1 U	--	< 1 U	< 1 U	< 1 U	--	--
Acetone	mg/kg	1.2	SL-9	< 5 U	--	--	< 5 U	--	< 5 U	< 5 U	< 5 U	--	--
Acrolein	mg/kg	0.0044	SL-3	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	mg/kg	0.00012	SL-3	--	--	--	--	--	--	--	--	--	--
Bromobenzene	mg/kg	640	SL-1	< 0.05 U	--	--	< 0.05 U	--	< 0.05 U	< 0.05 U	< 0.05 U	--	--
Bromochloromethane	mg/kg			--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	0.013	SL-3	< 0.005 U	--	--	< 0.005 U	--	< 0.005 U	< 0.005 U	< 0.005 U	--	--
Bromoform	mg/kg	0.078	SL-3	< 0.05 U	--	--	< 0.05 U	--	< 0.05 U	< 0.05 U	< 0.05 U	--	--
Bromomethane	mg/kg	0.24	SL-9	< 0.1 U	--	--	< 0.1 U	--	< 0.1 U	< 0.1 U	< 0.1 U	--	--
Carbon Disulfide	mg/kg	0.81	SL-9	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	0.0029	SL-3	< 0.005 U	--	--	< 0.005 U	--	< 0.005 U	< 0.005 U	< 0.005 U	--	--
Chlorobenzene	mg/kg	1.7	SL-3	< 0.05 U	--	--	< 0.05 U	--	< 0.05 U	< 0.05 U	< 0.05 U	--	--
Chloroethane	mg/kg			< 0.1 U	--	--	< 0.1 U	--	< 0.1 U	< 0.1 U	< 0.1 U	--	--
Chloroform	mg/kg	0.81	SL-3	< 0.05 U	--	--	< 0.05 U	--	< 0.05 U	< 0.05 U	< 0.05 U	--	--
Chloromethane	mg/kg			< 0.5 U	--	--	< 0.5 U	--	< 0.5 U	< 0.5 U	< 0.5 U	--	--
cis-1,2-Dichloroethene (DCE)	mg/kg	24	SL-9	< 0.001 U	--	--	< 0.001 U	--	< 0.001 U	**0.052**	**0.0014**	--	--
cis-1,3-Dichloropropene	mg/kg	0.0056	SL-3	< 0.01 U	--	--	< 0.01 U	--	< 0.01 U	< 0.01 U	< 0.01 U	--	--
Dibromochloromethane	mg/kg	0.01	SL-3	< 0.01 U	--	--	< 0.01 U	--	< 0.01 U	< 0.01 U	< 0.01 U	--	--
Dibromomethane	mg/kg	800	SL-1	< 0.05 U	--	--	< 0.05 U	--	< 0.05 U	< 0.05 U	< 0.05 U	--	--
Dichlorodifluoromethane	mg/kg	16000	SL-1	< 0.5 U	--	--	< 0.5 U	--	< 0.5 U	< 0.5 U	< 0.5 U	--	--
Isopropylbenzene	mg/kg	8000	SL-1	< 0.05 U	--	--	< 0.05 U	--	< 0.05 U	**0.46**	< 0.05 U	--	--
m,p-Xylenes	mg/kg			< 0.002 U	--	--	< 0.002 U	--	**0.023**	**19**	< 0.002 U	--	--
Methyl tert-butyl ether (MTBE)	mg/kg	560	SL-1	< 0.001 U	--	--	< 0.001 U	--	< 0.001 U	< 0.001 U	< 0.001 U	--	--
Methylene Chloride	mg/kg	0.43	SL-3	R	--	--	< 0.2 U	--	< 0.2 U	R	R	--	--
Methyliodide	mg/kg			--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	4000	SL-1	--	--	--	--	--	--	--	--	--	--
n-Hexane	mg/kg	4800	SL-1	< 0.25 U	--	--	< 0.25 U	--	< 0.25 U	< 0.25 U	< 0.25 U	--	--
n-Propylbenzene	mg/kg	8000	SL-1	< 0.05 U	--	--	< 0.05 U	--	< 0.05 U	**0.55**	< 0.05 U	--	--
o-Xylene	mg/kg			< 0.001 U	--	--	< 0.001 U	--	**0.014**	**6.2**	< 0.001 U	--	--
p-Isopropyltoluene	mg/kg	320	SL-1	< 0.05 U	--	--	< 0.05 U	--	< 0.05 U	**0.8**	< 0.05 U	--	--
sec-Butylbenzene	mg/kg	8000	SL-1	< 0.05 U	--	--	< 0.05 U	--	< 0.05 U	**0.31**	< 0.05 U	--	--
Styrene	mg/kg	4.7	SL-9	< 0.05 U	--	--	< 0.05 U	--	< 0.05 U	< 0.05 U	< 0.05 U	--	--
tert-Butylbenzene	mg/kg	8000	SL-1	< 0.05 U	--	--	< 0.05 U	--	< 0.05 U	< 0.05 U	< 0.05 U	--	--
Tetrachloroethene (PCE)	mg/kg	0.029	SL-3	< 0.001 U	--	--	< 0.001 U	--	**0.0022**	**0.0016**	**2.7**	--	--
trans-1,2-Dichloroethene	mg/kg	0.78	SL-3	< 0.002 U	--	--	< 0.002 U	--	< 0.002 U	< 0.002 U	< 0.002 U	--	--
trans-1,3-Dichloropropene	mg/kg	0.0056	SL-3	< 0.01 U	--	--	< 0.01 U	--	< 0.01 U	< 0.01 U	< 0.01 U	--	--
Trichloroethene (TCE)	mg/kg	0.0044	SL-3	< 0.001 U	--	--	< 0.001 U	--	< 0.001 U	**0.0017**	**0.056**	--	--
Trichlorofluoromethane	mg/kg	24000	SL-1	< 0.5 U	--	--	< 0.5 U	--	< 0.5 U	< 0.5 U	< 0.5 U	--	--
Vinyl Acetate	mg/kg	80000	SL-1	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	0.0011	SL-3	< 0.001 U	--	--	< 0.001 U	--	< 0.001 U	**0.0047**	< 0.001 U	--	--
Conventionals													
Total Organic Carbon	%			--	--	--	--	--	--	--	--	**0.205**	**0.349**
Total Solids	%			--	**91.6**	--	--	--	--	--	--	--	--

Table I.3.B. Vadose Soil Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL

				Location	**SS-03**	**SS-04**	**SS-05**	**SS-06**	**SS-07**	**SS-08**	**SS-09**	**SS-10**	**SS-11**	**SS-12**
				Date	02/09/16	02/10/16	02/10/16	02/10/16	02/09/16	02/09/16	02/10/16	02/10/16	02/10/16	02/09/16
				Sample	SPM-SS-03-02092016	SPM-SS-04-02102016	SPM-SS-05-02102016	SPM-SS-06-02102016	SPM-SS-07-02092016	SPM-SS-08-02092016	SPM-SS-09-02102016	SPM-SS-10-02102016	SPM-SS-11-02102016	SPM-SS-12-02092016
				Depth	0 - 1.6 ft	0 - 1.6 ft	0 - 1.6 ft	0 - 1.6 ft	0 - 1.6 ft	0 - 1.6 ft	0 - 1.6 ft	0 - 1.6 ft	0 - 1.6 ft	0 - 1.6 ft
				Geologic Unit	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill
Analyte	Unit	Prelmiinary RI SL	Basis of SL											
Metals, Total														
Arsenic	mg/kg	7.3	SL-10	--	--	--	--	--	--	--	--	--	--	--
Barium	mg/kg	250	SL-10	--	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/kg	0.77	SL-10	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/kg	67	SL-9	--	--	--	--	--	--	--	--	--	--	--
Copper	mg/kg	36	SL-10	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/kg	120	SL-9	--	--	--	--	--	--	--	--	--	--	--
Mercury	mg/kg	0.07	SL-10	--	--	--	--	--	--	--	--	--	--	--
Nickel	mg/kg	48	SL-10	--	--	--	--	--	--	--	--	--	--	--
Selenium	mg/kg	0.78	SL-10	--	--	--	--	--	--	--	--	--	--	--
Silver	mg/kg	0.61	SL-10	--	--	--	--	--	--	--	--	--	--	--
Zinc	mg/kg	100	SL-3	--	--	--	--	--	--	--	--	--	--	--
Butyl Tins														
Dibutyltin Ion	mg/kg			--	--	--	--	--	--	--	--	--	--	--
Monobutyltin	mg/kg			--	--	--	--	--	--	--	--	--	--	--
Tetrabutyltin	mg/kg			--	--	--	--	--	--	--	--	--	--	--
Tributyltin Ion	mg/kg	0.0021	SL-8	--	--	--	--	--	--	--	--	--	--	--
Polychlorinated Biphenyl (PCB) Aroclors														
Total PCB Aroclors (ND = 0)	mg/kg	1.10E-05	SL-3	**0.094**	**0.21**	**0.82**	< 0.08 U	**0.0048**	**0.0715**	**0.05**	< 0.004 U	**0.019**	**0.017**	
Polychlorinated Biphenyl (PCB) Congeners														
Total PCB Congeners (ND = 0)	mg/kg	1.10E-05	SL-3	**0.124 J**	**0.221 J**	**0.596 J**	**0.0184 J**	**0.00586 J**	**0.0817**	**0.0544 J**	**0.00482 J**	**0.0257 J**	**0.00638 J**	
Total PCB TEQ (ND = 0)	mg/kg	6.90E-09	SL-3	**2.52E-06 J**	**7.67E-06 J**	**6.28E-06 J**	**5.71E-07 J**	**2.93E-07 J**	**2.82E-06**	**1.78E-06 J**	**1.48E-07 J**	**5.54E-07 J**	**2.77E-07 J**	
Dioxins/Furans														
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	5.20E-06	SL-10	--	--	--	--	--	--	--	--	--	--	--
2,3,7,8-TCDD	mg/kg	5.20E-06	SL-10	--	--	--	--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)														
1-Methylnaphthalene	mg/kg	20	SL-1	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene	mg/kg	0.67	SL-8	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene	mg/kg	0.5	SL-8	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene	mg/kg	1.3	SL-8	--	--	--	--	--	--	--	--	--	--	--
Anthracene	mg/kg	0.96	SL-8	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene	mg/kg	0.67	SL-8	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene	mg/kg	1.7	SL-8	--	--	--	--	--	--	--	--	--	--	--
Fluorene	mg/kg	0.54	SL-8	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	mg/kg	0.039	SL-3	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene	mg/kg	1.5	SL-8	--	--	--	--	--	--	--	--	--	--	--
Pyrene	mg/kg	2.6	SL-8	--	--	--	--	--	--	--	--	--	--	--
Benz(a)anthracene	mg/kg	0.73	SL-9	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	0.00031	SL-3	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	44	SL-9	--	--	--	--	--	--	--	--	--	--	--
Benzo(j)fluoranthene	mg/kg			--	--	--	--	--	--	--	--	--	--	--
Benzo(j,k)fluoranthene	mg/kg			--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	mg/kg	71	SL-9	--	--	--	--	--	--	--	--	--	--	--
Chrysene	mg/kg	1.4	SL-8	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	0.23	SL-8	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	0.6	SL-8	--	--	--	--	--	--	--	--	--	--	--
Total Benzofluoranthenes	mg/kg	1.1	SL-9	--	--	--	--	--	--	--	--	--	--	--
Total HPAHs (ND = 1/2 RDL)	mg/kg	1.1	SL-9	--	--	--	--	--	--	--	--	--	--	--
Total LPAHs (ND = 1/2 RDL)	mg/kg	5.2	SL-8	--	--	--	--	--	--	--	--	--	--	--
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	0.00031	SL-3	--	--	--	--	--	--	--	--	--	--	--
Semivolatile Organic Compounds (SVOCs)														
1,2-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	mg/kg	0.00068	SL-3	--	--	--	--	--	--	--	--	--	--	--
1,3-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--	--	--
1,4-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	mg/kg	2400	SL-1	--	--	--	--	--	--	--	--	--	--	--
2,3,5,6-Tetrachlorophenol	mg/kg			--	--	--	--	--	--	--	--	--	--	--
2,3-Dichloroaniline	mg/kg			--	--	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	mg/kg	22	SL-3	--	--	--	--	--	--	--	--	--	--	--
2,4,6-Trichlorophenol	mg/kg	0.0033	SL-3	--	--	--	--	--	--	--	--	--	--	--
2,4-Dichlorophenol	mg/kg	0.069	SL-3	--	--	--	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	mg/kg	0.029	SL-8	--	--	--	--	--	--	--	--	--	--	--
2,4-Dinitrophenol	mg/kg	0.061	SL-9	--	--	--	--	--	--	--	--	--	--	--
2,4-Dinitrotoluene	mg/kg	0.0028	SL-3	--	--	--	--	--	--	--	--	--	--	--
2,6-Dinitrotoluene	mg/kg	0.67	SL-1	--	--	--	--	--	--	--	--	--	--	--
2-Chloronaphthalene	mg/kg	5.4	SL-3	--	--	--	--	--	--	--	--	--	--	--
2-Chlorophenol	mg/kg	0.2	SL-3	--	--	--	--	--	--	--	--	--	--	--
2-Methylphenol	mg/kg	0.063	SL-8	--	--	--	--	--	--	--	--	--	--	--
2-Nitroaniline	mg/kg	800	SL-1	--	--	--	--	--	--	--	--	--	--	--
2-Nitrophenol	mg/kg			--	--	--	--	--	--	--	--	--	--	--
3 & 4 Methylphenol	mg/kg			--	--	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	mg/kg	2.20E-04	SL-3	--	--	--	--	--	--	--	--	--	--	--
3-Nitroaniline	mg/kg			--	--	--	--	--	--	--	--	--	--	--
4,6-Dinitro-2-methylphenol	mg/kg	0.13	SL-3	--	--	--	--	--	--	--	--	--	--	--
4-Bromophenyl phenyl ether	mg/kg			--	--	--	--	--	--	--	--	--	--	--
4-Chloro-3-methylphenol	mg/kg	0.5	SL-3	--	--	--	--	--	--	--	--	--	--	--
4-Chloroaniline	mg/kg	5	SL-1	--	--	--	--	--	--	--	--	--	--	--
4-Chlorophenyl phenyl ether	mg/kg			--	--	--	--	--	--	--	--	--	--	--
4-Methylphenol	mg/kg	0.67	SL-8	--	--	--	--	--	--	--	--	--	--	--
4-Nitroaniline	mg/kg	22	SL-9	--	--	--	--	--	--	--	--	--	--	--
4-Nitrophenol	mg/kg			--	--	--	--	--	--	--	--	--	--	--
Aniline	mg/kg	180	SL-1	--	--	--	--	--	--	--	--	--	--	--
Benzoic acid	mg/kg	0.65	SL-8	--	--	--	--	--	--	--	--	--	--	--
Benzyl alcohol	mg/kg	0.057	SL-8	--	--	--	--	--	--	--	--	--	--	--
Benzyl butyl phthalate	mg/kg	0.0036	SL-3	--	--	--	--	--	--	--	--	--	--	--
Bis(2-chloro-1-methylethyl) ether	mg/kg	0.59	SL-3	--	--	--	--	--	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	mg/kg	240	SL-1	--	--	--	--	--	--	--	--	--	--	--
Bis(2-chloroethyl) ether	mg/kg	0.00033	SL-3	--	--	--	--	--	--	--	--	--	--	--
bis(2-Chloroisopropyl)ether	mg/kg			--	--	--	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) adipate	mg/kg	830	SL-1	--	--	--	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate	mg/kg	0.02	SL-9	--	--	--	--	--	--	--	--	--	--	--
Carbazole	mg/kg	79	SL-9	--	--	--	--	--	--	--	--	--	--	--
Dibenzofuran	mg/kg	0.54	SL-8	--	--	--	--	--	--	--	--	--	--	--
Diethyl phthalate	mg/kg	0.2	SL-8	--	--	--	--	--	--	--	--	--	--	--
Dimethyl phthalate	mg/kg	0.071	SL-8	--	--	--	--	--	--	--	--	--	--	--
Di-n-butyl phthalate	mg/kg	0.011	SL-9	--	--	--	--	--	--	--	--	--	--	--
Di-n-octyl phthalate	mg/kg	0.91	SL-9	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobenzene	mg/kg	8.00E-06	SL-3	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	0.00021	SL-3	--	--	--	--	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	mg/kg	0.032	SL-3	--	--	--	--	--	--	--	--	--	--	--
Hexachloroethane	mg/kg	0.00016	SL-3	--	--	--	--	--	--	--	--	--	--	--
Isophorone	mg/kg	0.58	SL-3	--	--	--	--	--	--	--	--	--	--	--
Nitrobenzene	mg/kg	0.64	SL-3	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine	mg/kg	0.0015	SL-3	--	--	--	--	--	--	--	--	--	--	--
N-Nitroso-di-n-propylamine	mg/kg	0.00055	SL-3	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	mg/kg	0.028	SL-8	--	--	--	--	--	--	--	--	--	--	--
Pentachlorophenol	mg/kg	3.20E-05	SL-3	--	--	--	--	--	--	--	--	--	--	--
Phenol	mg/kg	0.42	SL-8	--	--	--	--	--	--	--	--	--	--	--
Pyridine	mg/kg	80	SL-1	--	--	--	--	--	--	--	--	--	--	--

Table I.3.B. Vadose Soil Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL

			Location	**SS-03**	**SS-04**	**SS-05**	**SS-06**	**SS-07**	**SS-08**	**SS-09**	**SS-10**	**SS-11**	**SS-12**
			Date	02/09/16	02/10/16	02/10/16	02/10/16	02/09/16	02/09/16	02/10/16	02/10/16	02/10/16	02/09/16
			Sample	SPM-SS-03-02092016	SPM-SS-04-02102016	SPM-SS-05-02102016	SPM-SS-06-02102016	SPM-SS-07-02092016	SPM-SS-08-02092016	SPM-SS-09-02102016	SPM-SS-10-02102016	SPM-SS-11-02102016	SPM-SS-12-02092016
			Depth	0 - 1.6 ft	0 - 1.6 ft	0 - 1.6 ft	0 - 1.6 ft	0 - 1.6 ft	0 - 1.6 ft	0 - 1.6 ft	0 - 1.6 ft	0 - 1.6 ft	0 - 1.6 ft
			Geologic Unit	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill
Analyte	Unit	Prelmiinary RI SL	Basis of SL										
Pesticides													
2,4'-DDD	mg/kg			--	--	--	--	--	--	--	--	--	--
2,4'-DDE	mg/kg			--	--	--	--	--	--	--	--	--	--
2,4'-DDT	mg/kg			--	--	--	--	--	--	--	--	--	--
4,4'-DDD	mg/kg	7.30E-06	SL-3	--	--	--	--	--	--	--	--	--	--
4,4'-DDE	mg/kg	1.50E-06	SL-3	--	--	--	--	--	--	--	--	--	--
4,4'-DDT	mg/kg	1.60E-05	SL-3	--	--	--	--	--	--	--	--	--	--
Aldrin	mg/kg	4.00E-08	SL-3	--	--	--	--	--	--	--	--	--	--
Alpha-BHC	mg/kg	1.90E-06	SL-3	--	--	--	--	--	--	--	--	--	--
Beta-BHC	mg/kg	6.60E-05	SL-3	--	--	--	--	--	--	--	--	--	--
Chlordane	mg/kg	2.30E-05	SL-3	--	--	--	--	--	--	--	--	--	--
cis-Chlordane	mg/kg	0.0001	SL-8	--	--	--	--	--	--	--	--	--	--
cis-Nonachlor	mg/kg			--	--	--	--	--	--	--	--	--	--
Delta-BHC	mg/kg	0.0048	SL-1	--	--	--	--	--	--	--	--	--	--
Dieldrin	mg/kg	3.60E-08	SL-3	--	--	--	--	--	--	--	--	--	--
Endosulfan I	mg/kg	0.0012	SL-3	--	--	--	--	--	--	--	--	--	--
Endosulfan II	mg/kg	0.0012	SL-3	--	--	--	--	--	--	--	--	--	--
Endosulfan Sulfate	mg/kg	2	SL-3	--	--	--	--	--	--	--	--	--	--
Endrin	mg/kg	0.00044	SL-3	--	--	--	--	--	--	--	--	--	--
Endrin Aldehyde	mg/kg	0.0024	SL-3	--	--	--	--	--	--	--	--	--	--
Endrin ketone	mg/kg			--	--	--	--	--	--	--	--	--	--
Heptachlor	mg/kg	6.60E-08	SL-3	--	--	--	--	--	--	--	--	--	--
Heptachlor Epoxide	mg/kg	4.90E-07	SL-3	--	--	--	--	--	--	--	--	--	--
Lindane	mg/kg	0.0039	SL-3	--	--	--	--	--	--	--	--	--	--
Methoxychlor	mg/kg	0.032	SL-3	--	--	--	--	--	--	--	--	--	--
Mirex	mg/kg	0.0071	SL-3	--	--	--	--	--	--	--	--	--	--
Oxychlordane	mg/kg			--	--	--	--	--	--	--	--	--	--
Toxaphene	mg/kg	6.10E-05	SL-3	--	--	--	--	--	--	--	--	--	--
trans-Chlordane	mg/kg	0.0001	SL-8	--	--	--	--	--	--	--	--	--	--
trans-Nonachlor	mg/kg			--	--	--	--	--	--	--	--	--	--
Total Petroleum Hydrocarbons (TPH)													
Gasoline Range Organics	mg/kg	30	SL-3	--	--	--	--	--	--	--	--	--	--
Diesel Range Organics	mg/kg	2000	SL-9	--	--	--	--	--	--	--	--	--	--
Motor Oil Range Organics	mg/kg	2000	SL-9	--	--	--	--	--	--	--	--	--	--
Diesel and Oil Extended Range Organics	mg/kg	2000	SL-9	--	--	--	--	--	--	--	--	--	--
Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)													
Benzene	mg/kg	0.0088	SL-3	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	0.72	SL-3	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	0.18	SL-3	--	--	--	--	--	--	--	--	--	--
Total Xylenes	mg/kg	0.94	SL-3	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds (VOCs)													
1,1,1,2-Tetrachloroethane	mg/kg	38	SL-1	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	370	SL-3	--	--	--	--	--	--	--	--	--	--
1,1,2 - Trichlorotrifluoroethane	mg/kg	2400000	SL-1	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	0.0017	SL-3	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	0.005	SL-3	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	180	SL-1	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	11	SL-9	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	mg/kg			--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	64	SL-1	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	0.0063	SL-1	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	0.0014	SL-3	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	800	SL-1	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	mg/kg	0.23	SL-1	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	mg/kg	0.5	SL-1	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	0.035	SL-8	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane (EDC)	mg/kg	0.35	SL-3	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	0.016	SL-3	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	800	SL-1	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	0.023	SL-3	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	mg/kg	0.0066	SL-3	--	--	--	--	--	--	--	--	--	--
1,4-Dichloro-2-Butene	mg/kg			--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	0.11	SL-8	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	mg/kg			--	--	--	--	--	--	--	--	--	--
2-Butanone	mg/kg	350	SL-9	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl Vinyl Ether	mg/kg			--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	1600	SL-1	--	--	--	--	--	--	--	--	--	--
2-Hexanone	mg/kg	400	SL-1	--	--	--	--	--	--	--	--	--	--
2-Pentanone	mg/kg			--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	1600	SL-1	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone	mg/kg	6400	SL-1	--	--	--	--	--	--	--	--	--	--
Acetone	mg/kg	1.2	SL-9	--	--	--	--	--	--	--	--	--	--
Acrolein	mg/kg	0.0044	SL-3	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	mg/kg	0.00012	SL-3	--	--	--	--	--	--	--	--	--	--
Bromobenzene	mg/kg	640	SL-1	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	mg/kg			--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	0.013	SL-3	--	--	--	--	--	--	--	--	--	--
Bromoform	mg/kg	0.078	SL-3	--	--	--	--	--	--	--	--	--	--
Bromomethane	mg/kg	0.24	SL-9	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	mg/kg	0.81	SL-9	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	0.0029	SL-3	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	mg/kg	1.7	SL-3	--	--	--	--	--	--	--	--	--	--
Chloroethane	mg/kg			--	--	--	--	--	--	--	--	--	--
Chloroform	mg/kg	0.81	SL-3	--	--	--	--	--	--	--	--	--	--
Chloromethane	mg/kg			--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene (DCE)	mg/kg	24	SL-9	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	0.0056	SL-3	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	mg/kg	0.01	SL-3	--	--	--	--	--	--	--	--	--	--
Dibromomethane	mg/kg	800	SL-1	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg	16000	SL-1	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	mg/kg	8000	SL-1	--	--	--	--	--	--	--	--	--	--
m,p-Xylenes	mg/kg			--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	mg/kg	560	SL-1	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	mg/kg	0.43	SL-3	--	--	--	--	--	--	--	--	--	--
Methyliodide	mg/kg			--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	4000	SL-1	--	--	--	--	--	--	--	--	--	--
n-Hexane	mg/kg	4800	SL-1	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	8000	SL-1	--	--	--	--	--	--	--	--	--	--
o-Xylene	mg/kg			--	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene	mg/kg	320	SL-1	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	mg/kg	8000	SL-1	--	--	--	--	--	--	--	--	--	--
Styrene	mg/kg	4.7	SL-9	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	mg/kg	8000	SL-1	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	mg/kg	0.029	SL-3	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	0.78	SL-3	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	0.0056	SL-3	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	mg/kg	0.0044	SL-3	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg	24000	SL-1	--	--	--	--	--	--	--	--	--	--
Vinyl Acetate	mg/kg	80000	SL-1	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	0.0011	SL-3	--	--	--	--	--	--	--	--	--	--
Conventionals													
Total Organic Carbon	%			**0.526**	**0.56**	**0.496**	**0.276**	**0.218**	**0.37**	**0.366**	**0.0643**	**0.337**	**1.06**
Total Solids	%			--	--	--	--	--	--	--	--	--	--

Table I.3.B. Vadose Soil Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL

			Location	**SS-13**	**SS-14**	**SS-15**	**SS-16**	**SS-17**	**SS-18**	**SS-19**	**SS-20**	**SS-21**	**SS-22**
			Date	02/10/16	02/10/16	02/09/16	02/09/16	02/10/16	02/10/16	02/10/16	02/10/16	02/08/16	02/08/16
			Sample	SPM-SS-13-02102016	SPM-SS-14-02102016	SPM-SS-15-02102016	SPM-SS-16-02092016	SPM-SS-17-02102016	SPM-SS-18-02102016	SPM-SS-19-02102016	SPM-SS-20-02102016	SPM-SS-21-02082016	SPM-SS-22-02082016
			Depth	0 - 1.6 ft	0 - 1.6 ft	0 - 1.6 ft	0 - 1.6 ft	0 - 1.6 ft	0 - 1.6 ft	0 - 1.6 ft	0 - 1.6 ft	0 - 1.6 ft	0 - 1.6 ft
			Geologic Unit	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill
Analyte	Unit	Prelmiinary RI SL	Basis of SL										
Metals, Total													
Arsenic	mg/kg	7.3	SL-10	--	--	--	--	--	--	--	--	--	--
Barium	mg/kg	250	SL-10	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/kg	0.77	SL-10	--	--	--	--	--	--	--	--	--	--
Chromium	mg/kg	67	SL-9	--	--	--	--	--	--	--	--	--	--
Copper	mg/kg	36	SL-10	--	--	--	--	--	--	--	--	--	--
Lead	mg/kg	120	SL-9	--	--	--	--	--	--	--	--	--	--
Mercury	mg/kg	0.07	SL-10	--	--	--	--	--	--	--	--	--	--
Nickel	mg/kg	48	SL-10	--	--	--	--	--	--	--	--	--	--
Selenium	mg/kg	0.78	SL-10	--	--	--	--	--	--	--	--	--	--
Silver	mg/kg	0.61	SL-10	--	--	--	--	--	--	--	--	--	--
Zinc	mg/kg	100	SL-3	--	--	--	--	--	--	--	--	--	--
Butyl Tins													
Dibutyltin Ion	mg/kg			--	--	--	--	--	--	--	--	--	--
Monobutyltin	mg/kg			--	--	--	--	--	--	--	--	--	--
Tetrabutyltin	mg/kg			--	--	--	--	--	--	--	--	--	--
Tributyltin Ion	mg/kg	0.0021	SL-8	--	--	--	--	--	--	--	--	--	--
Polychlorinated Biphenyl (PCB) Aroclors													
Total PCB Aroclors (ND = 0)	mg/kg	1.10E-05	SL-3	**0.061**	**0.027**	**0.052**	**0.36**	< 0.004 U	**0.25**	**0.77**	< 0.08 U	**16 J**	**0.22**
Polychlorinated Biphenyl (PCB) Congeners													
Total PCB Congeners (ND = 0)	mg/kg	1.10E-05	SL-3	**0.0164**	**0.0275 J**	**0.0736 J**	**0.107 J**	**0.00496 J**	**0.369 J**	**0.93 J**	**0.101 J**	**22.1 J**	**0.416 J**
Total PCB TEQ (ND = 0)	mg/kg	6.90E-09	SL-3	**4.66E-07**	**1.24E-06 J**	**3.53E-06 J**	**3.14E-06 J**	**1.20E-09 J**	**1.02E-05 J**	**2.64E-05**	**3.03E-06 J**	**3.48E-04**	**1.19E-05**
Dioxins/Furans													
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	5.20E-06	SL-10	--	--	--	--	--	--	--	--	--	--
2,3,7,8-TCDD	mg/kg	5.20E-06	SL-10	--	--	--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)													
1-Methylnaphthalene	mg/kg	20	SL-1	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene	mg/kg	0.67	SL-8	--	--	--	--	--	--	--	--	--	--
Acenaphthene	mg/kg	0.5	SL-8	--	--	--	--	--	--	--	--	--	--
Acenaphthylene	mg/kg	1.3	SL-8	--	--	--	--	--	--	--	--	--	--
Anthracene	mg/kg	0.96	SL-8	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene	mg/kg	0.67	SL-8	--	--	--	--	--	--	--	--	--	--
Fluoranthene	mg/kg	1.7	SL-8	--	--	--	--	--	--	--	--	--	--
Fluorene	mg/kg	0.54	SL-8	--	--	--	--	--	--	--	--	--	--
Naphthalene	mg/kg	0.039	SL-3	--	--	--	--	--	--	--	--	--	--
Phenanthrene	mg/kg	1.5	SL-8	--	--	--	--	--	--	--	--	--	--
Pyrene	mg/kg	2.6	SL-8	--	--	--	--	--	--	--	--	--	--
Benz(a)anthracene	mg/kg	0.73	SL-9	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	0.00031	SL-3	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	44	SL-9	--	--	--	--	--	--	--	--	--	--
Benzo(j)fluoranthene	mg/kg			--	--	--	--	--	--	--	--	--	--
Benzo(j,k)fluoranthene	mg/kg			--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	mg/kg	71	SL-9	--	--	--	--	--	--	--	--	--	--
Chrysene	mg/kg	1.4	SL-8	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	0.23	SL-8	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	0.6	SL-8	--	--	--	--	--	--	--	--	--	--
Total Benzofluoranthenes	mg/kg	1.1	SL-9	--	--	--	--	--	--	--	--	--	--
Total HPAHs (ND = 1/2 RDL)	mg/kg	1.1	SL-9	--	--	--	--	--	--	--	--	--	--
Total LPAHs (ND = 1/2 RDL)	mg/kg	5.2	SL-8	--	--	--	--	--	--	--	--	--	--
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	0.00031	SL-3	--	--	--	--	--	--	--	--	--	--
Semivolatile Organic Compounds (SVOCs)													
1,2-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	mg/kg	0.00068	SL-3	--	--	--	--	--	--	--	--	--	--
1,3-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--	--
1,4-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	mg/kg	2400	SL-1	--	--	--	--	--	--	--	--	--	--
2,3,5,6-Tetrachlorophenol	mg/kg			--	--	--	--	--	--	--	--	--	--
2,3-Dichloroaniline	mg/kg			--	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	mg/kg	22	SL-3	--	--	--	--	--	--	--	--	--	--
2,4,6-Trichlorophenol	mg/kg	0.0033	SL-3	--	--	--	--	--	--	--	--	--	--
2,4-Dichlorophenol	mg/kg	0.069	SL-3	--	--	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	mg/kg	0.029	SL-8	--	--	--	--	--	--	--	--	--	--
2,4-Dinitrophenol	mg/kg	0.061	SL-9	--	--	--	--	--	--	--	--	--	--
2,4-Dinitrotoluene	mg/kg	0.0028	SL-3	--	--	--	--	--	--	--	--	--	--
2,6-Dinitrotoluene	mg/kg	0.67	SL-1	--	--	--	--	--	--	--	--	--	--
2-Chloronaphthalene	mg/kg	5.4	SL-3	--	--	--	--	--	--	--	--	--	--
2-Chlorophenol	mg/kg	0.2	SL-3	--	--	--	--	--	--	--	--	--	--
2-Methylphenol	mg/kg	0.063	SL-8	--	--	--	--	--	--	--	--	--	--
2-Nitroaniline	mg/kg	800	SL-1	--	--	--	--	--	--	--	--	--	--
2-Nitrophenol	mg/kg			--	--	--	--	--	--	--	--	--	--
3 & 4 Methylphenol	mg/kg			--	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	mg/kg	2.20E-04	SL-3	--	--	--	--	--	--	--	--	--	--
3-Nitroaniline	mg/kg			--	--	--	--	--	--	--	--	--	--
4,6-Dinitro-2-methylphenol	mg/kg	0.13	SL-3	--	--	--	--	--	--	--	--	--	--
4-Bromophenyl phenyl ether	mg/kg			--	--	--	--	--	--	--	--	--	--
4-Chloro-3-methylphenol	mg/kg	0.5	SL-3	--	--	--	--	--	--	--	--	--	--
4-Chloroaniline	mg/kg	5	SL-1	--	--	--	--	--	--	--	--	--	--
4-Chlorophenyl phenyl ether	mg/kg			--	--	--	--	--	--	--	--	--	--
4-Methylphenol	mg/kg	0.67	SL-8	--	--	--	--	--	--	--	--	--	--
4-Nitroaniline	mg/kg	22	SL-9	--	--	--	--	--	--	--	--	--	--
4-Nitrophenol	mg/kg			--	--	--	--	--	--	--	--	--	--
Aniline	mg/kg	180	SL-1	--	--	--	--	--	--	--	--	--	--
Benzoic acid	mg/kg	0.65	SL-8	--	--	--	--	--	--	--	--	--	--
Benzyl alcohol	mg/kg	0.057	SL-8	--	--	--	--	--	--	--	--	--	--
Benzyl butyl phthalate	mg/kg	0.0036	SL-3	--	--	--	--	--	--	--	--	--	--
Bis(2-chloro-1-methylethyl) ether	mg/kg	0.59	SL-3	--	--	--	--	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	mg/kg	240	SL-1	--	--	--	--	--	--	--	--	--	--
Bis(2-chloroethyl) ether	mg/kg	0.00033	SL-3	--	--	--	--	--	--	--	--	--	--
bis(2-Chloroisopropyl)ether	mg/kg			--	--	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) adipate	mg/kg	830	SL-1	--	--	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate	mg/kg	0.02	SL-9	--	--	--	--	--	--	--	--	--	--
Carbazole	mg/kg	79	SL-9	--	--	--	--	--	--	--	--	--	--
Dibenzofuran	mg/kg	0.54	SL-8	--	--	--	--	--	--	--	--	--	--
Diethyl phthalate	mg/kg	0.2	SL-8	--	--	--	--	--	--	--	--	--	--
Dimethyl phthalate	mg/kg	0.071	SL-8	--	--	--	--	--	--	--	--	--	--
Di-n-butyl phthalate	mg/kg	0.011	SL-9	--	--	--	--	--	--	--	--	--	--
Di-n-octyl phthalate	mg/kg	0.91	SL-9	--	--	--	--	--	--	--	--	--	--
Hexachlorobenzene	mg/kg	8.00E-06	SL-3	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	0.00021	SL-3	--	--	--	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	mg/kg	0.032	SL-3	--	--	--	--	--	--	--	--	--	--
Hexachloroethane	mg/kg	0.00016	SL-3	--	--	--	--	--	--	--	--	--	--
Isophorone	mg/kg	0.58	SL-3	--	--	--	--	--	--	--	--	--	--
Nitrobenzene	mg/kg	0.64	SL-3	--	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine	mg/kg	0.0015	SL-3	--	--	--	--	--	--	--	--	--	--
N-Nitroso-di-n-propylamine	mg/kg	0.00055	SL-3	--	--	--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	mg/kg	0.028	SL-8	--	--	--	--	--	--	--	--	--	--
Pentachlorophenol	mg/kg	3.20E-05	SL-3	--	--	--	--	--	--	--	--	--	--
Phenol	mg/kg	0.42	SL-8	--	--	--	--	--	--	--	--	--	--
Pyridine	mg/kg	80	SL-1	--	--	--	--	--	--	--	--	--	--

Table I.3.B. Vadose Soil Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL

			Location	**SS-13**	**SS-14**	**SS-15**	**SS-16**	**SS-17**	**SS-18**	**SS-19**	**SS-20**	**SS-21**	**SS-22**
			Date	02/10/16	02/10/16	02/09/16	02/09/16	02/10/16	02/10/16	02/10/16	02/10/16	02/08/16	02/08/16
			Sample	SPM-SS-13-02102016	SPM-SS-14-02102016	SPM-SS-15-02102016	SPM-SS-16-02092016	SPM-SS-17-02102016	SPM-SS-18-02102016	SPM-SS-19-02102016	SPM-SS-20-02102016	SPM-SS-21-02082016	SPM-SS-22-02082016
			Depth	0 - 1.6 ft	0 - 1.6 ft	0 - 1.6 ft	0 - 1.6 ft	0 - 1.6 ft	0 - 1.6 ft	0 - 1.6 ft	0 - 1.6 ft	0 - 1.6 ft	0 - 1.6 ft
			Geologic Unit	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill
Analyte	Unit	Prelmiinary RI SL	Basis of SL										
Pesticides													
2,4'-DDD	mg/kg			--	--	--	--	--	--	--	--	--	--
2,4'-DDE	mg/kg			--	--	--	--	--	--	--	--	--	--
2,4'-DDT	mg/kg			--	--	--	--	--	--	--	--	--	--
4,4'-DDD	mg/kg	7.30E-06	SL-3	--	--	--	--	--	--	--	--	--	--
4,4'-DDE	mg/kg	1.50E-06	SL-3	--	--	--	--	--	--	--	--	--	--
4,4'-DDT	mg/kg	1.60E-05	SL-3	--	--	--	--	--	--	--	--	--	--
Aldrin	mg/kg	4.00E-08	SL-3	--	--	--	--	--	--	--	--	--	--
Alpha-BHC	mg/kg	1.90E-06	SL-3	--	--	--	--	--	--	--	--	--	--
Beta-BHC	mg/kg	6.60E-05	SL-3	--	--	--	--	--	--	--	--	--	--
Chlordane	mg/kg	2.30E-05	SL-3	--	--	--	--	--	--	--	--	--	--
cis-Chlordane	mg/kg	0.0001	SL-8	--	--	--	--	--	--	--	--	--	--
cis-Nonachlor	mg/kg			--	--	--	--	--	--	--	--	--	--
Delta-BHC	mg/kg	0.0048	SL-1	--	--	--	--	--	--	--	--	--	--
Dieldrin	mg/kg	3.60E-08	SL-3	--	--	--	--	--	--	--	--	--	--
Endosulfan I	mg/kg	0.0012	SL-3	--	--	--	--	--	--	--	--	--	--
Endosulfan II	mg/kg	0.0012	SL-3	--	--	--	--	--	--	--	--	--	--
Endosulfan Sulfate	mg/kg	2	SL-3	--	--	--	--	--	--	--	--	--	--
Endrin	mg/kg	0.00044	SL-3	--	--	--	--	--	--	--	--	--	--
Endrin Aldehyde	mg/kg	0.0024	SL-3	--	--	--	--	--	--	--	--	--	--
Endrin ketone	mg/kg			--	--	--	--	--	--	--	--	--	--
Heptachlor	mg/kg	6.60E-08	SL-3	--	--	--	--	--	--	--	--	--	--
Heptachlor Epoxide	mg/kg	4.90E-07	SL-3	--	--	--	--	--	--	--	--	--	--
Lindane	mg/kg	0.0039	SL-3	--	--	--	--	--	--	--	--	--	--
Methoxychlor	mg/kg	0.032	SL-3	--	--	--	--	--	--	--	--	--	--
Mirex	mg/kg	0.0071	SL-3	--	--	--	--	--	--	--	--	--	--
Oxychlordane	mg/kg			--	--	--	--	--	--	--	--	--	--
Toxaphene	mg/kg	6.10E-05	SL-3	--	--	--	--	--	--	--	--	--	--
trans-Chlordane	mg/kg	0.0001	SL-8	--	--	--	--	--	--	--	--	--	--
trans-Nonachlor	mg/kg			--	--	--	--	--	--	--	--	--	--
Total Petroleum Hydrocarbons (TPH)													
Gasoline Range Organics	mg/kg	30	SL-3	--	--	--	--	--	--	--	--	--	--
Diesel Range Organics	mg/kg	2000	SL-9	--	--	--	--	--	--	--	--	--	--
Motor Oil Range Organics	mg/kg	2000	SL-9	--	--	--	--	--	--	--	--	--	--
Diesel and Oil Extended Range Organics	mg/kg	2000	SL-9	--	--	--	--	--	--	--	--	--	--
Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)													
Benzene	mg/kg	0.0088	SL-3	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	0.72	SL-3	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	0.18	SL-3	--	--	--	--	--	--	--	--	--	--
Total Xylenes	mg/kg	0.94	SL-3	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds (VOCs)													
1,1,1,2-Tetrachloroethane	mg/kg	38	SL-1	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	370	SL-3	--	--	--	--	--	--	--	--	--	--
1,1,2 - Trichlorotrifluoroethane	mg/kg	2400000	SL-1	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	0.0017	SL-3	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	0.005	SL-3	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	180	SL-1	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	11	SL-9	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	mg/kg			--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	64	SL-1	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	0.0063	SL-1	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	0.0014	SL-3	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	800	SL-1	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	mg/kg	0.23	SL-1	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	mg/kg	0.5	SL-1	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	0.035	SL-8	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane (EDC)	mg/kg	0.35	SL-3	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	0.016	SL-3	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	800	SL-1	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	0.023	SL-3	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	mg/kg	0.0066	SL-3	--	--	--	--	--	--	--	--	--	--
1,4-Dichloro-2-Butene	mg/kg			--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	0.11	SL-8	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	mg/kg			--	--	--	--	--	--	--	--	--	--
2-Butanone	mg/kg	350	SL-9	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl Vinyl Ether	mg/kg			--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	1600	SL-1	--	--	--	--	--	--	--	--	--	--
2-Hexanone	mg/kg	400	SL-1	--	--	--	--	--	--	--	--	--	--
2-Pentanone	mg/kg			--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	1600	SL-1	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone	mg/kg	6400	SL-1	--	--	--	--	--	--	--	--	--	--
Acetone	mg/kg	1.2	SL-9	--	--	--	--	--	--	--	--	--	--
Acrolein	mg/kg	0.0044	SL-3	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	mg/kg	0.00012	SL-3	--	--	--	--	--	--	--	--	--	--
Bromobenzene	mg/kg	640	SL-1	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	mg/kg			--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	0.013	SL-3	--	--	--	--	--	--	--	--	--	--
Bromoform	mg/kg	0.078	SL-3	--	--	--	--	--	--	--	--	--	--
Bromomethane	mg/kg	0.24	SL-9	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	mg/kg	0.81	SL-9	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	0.0029	SL-3	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	mg/kg	1.7	SL-3	--	--	--	--	--	--	--	--	--	--
Chloroethane	mg/kg			--	--	--	--	--	--	--	--	--	--
Chloroform	mg/kg	0.81	SL-3	--	--	--	--	--	--	--	--	--	--
Chloromethane	mg/kg			--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene (DCE)	mg/kg	24	SL-9	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	0.0056	SL-3	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	mg/kg	0.01	SL-3	--	--	--	--	--	--	--	--	--	--
Dibromomethane	mg/kg	800	SL-1	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg	16000	SL-1	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	mg/kg	8000	SL-1	--	--	--	--	--	--	--	--	--	--
m,p-Xylenes	mg/kg			--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	mg/kg	560	SL-1	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	mg/kg	0.43	SL-3	--	--	--	--	--	--	--	--	--	--
Methyliodide	mg/kg			--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	4000	SL-1	--	--	--	--	--	--	--	--	--	--
n-Hexane	mg/kg	4800	SL-1	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	8000	SL-1	--	--	--	--	--	--	--	--	--	--
o-Xylene	mg/kg			--	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene	mg/kg	320	SL-1	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	mg/kg	8000	SL-1	--	--	--	--	--	--	--	--	--	--
Styrene	mg/kg	4.7	SL-9	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	mg/kg	8000	SL-1	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	mg/kg	0.029	SL-3	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	0.78	SL-3	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	0.0056	SL-3	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	mg/kg	0.0044	SL-3	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg	24000	SL-1	--	--	--	--	--	--	--	--	--	--
Vinyl Acetate	mg/kg	80000	SL-1	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	0.0011	SL-3	--	--	--	--	--	--	--	--	--	--
Conventionals													
Total Organic Carbon	%			**0.217**	**0.107**	**0.701**	**0.514**	**0.0516**	**1.45**	**0.246**	**0.128**	**1.14**	**0.507**
Total Solids	%			--	--	--	--	--	--	--	--	--	--

Table I.3.B. Vadose Soil Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL

			Location	**SS-23**	**SS-24**	**SS-25**	**SS-26**	**SS-27**	**SS-31**	**SS-32**	**SS-33**	**SS-34**	**SS-35**	**SS-36**
			Date	02/08/16	02/10/16	02/08/16	02/08/16	02/08/16	11/17/17	11/17/17	11/17/17	11/17/17	11/17/17	11/17/17
			Sample	SPM-SS-23-02082016	SPM-SS-24-02102016	SPM-SS-25-02082016	SPM-SS-26-02082016	SPM-SS-27-02082016	SS-31-0-1.5	SS-32-0-1.5	SS-33-0-1.5	SS-34-0-1.5	SS-35-0-1.5	SS-36-0-1.5
			Depth	0 - 1.6 ft	0 - 1.6 ft	0 - 1.6 ft	0 - 1.6 ft	0 - 1.6 ft	0 - 1.5 ft	0 - 1.5 ft	0 - 1.5 ft	0 - 1.5 ft	0 - 1.5 ft	0 - 1.5 ft
			Geologic Unit	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill
Analyte	Unit	Prelmiinary RI SL	Basis of SL											
Metals, Total														
Arsenic	mg/kg	7.3	SL-10	--	--	--	--	--	--	--	--	--	--	--
Barium	mg/kg	250	SL-10	--	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/kg	0.77	SL-10	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/kg	67	SL-9	--	--	--	--	--	--	--	--	--	--	--
Copper	mg/kg	36	SL-10	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/kg	120	SL-9	--	--	--	--	--	--	--	--	--	--	--
Mercury	mg/kg	0.07	SL-10	--	--	--	--	--	--	--	--	--	--	--
Nickel	mg/kg	48	SL-10	--	--	--	--	--	--	--	--	--	--	--
Selenium	mg/kg	0.78	SL-10	--	--	--	--	--	--	--	--	--	--	--
Silver	mg/kg	0.61	SL-10	--	--	--	--	--	--	--	--	--	--	--
Zinc	mg/kg	100	SL-3	--	--	--	--	--	--	--	--	--	--	--
Butyl Tins														
Dibutyltin Ion	mg/kg			--	--	--	--	--	--	--	--	--	--	--
Monobutyltin	mg/kg			--	--	--	--	--	--	--	--	--	--	--
Tetrabutyltin	mg/kg			--	--	--	--	--	--	--	--	--	--	--
Tributyltin Ion	mg/kg	0.0021	SL-8	--	--	--	--	--	--	--	--	--	--	--
Polychlorinated Biphenyl (PCB) Aroclors														
Total PCB Aroclors (ND = 0)	mg/kg	1.10E-05	SL-3	**0.083**	**0.074**	**0.6**	**0.61**	**0.041**	**0.064 A**	**0.2 A**	**29 A**	< 0.053 UA	< 0.052 UA	**5.6 A**
Polychlorinated Biphenyl (PCB) Congeners														
Total PCB Congeners (ND = 0)	mg/kg	1.10E-05	SL-3	**0.186 J**	**0.105 J**	**0.611 J**	**0.287 J**	**0.0835 J**	--	--	**76.5 J**	--	--	--
Total PCB TEQ (ND = 0)	mg/kg	6.90E-09	SL-3	**6.79E-06 J**	**3.95E-06 J**	**1.72E-05**	**8.41E-06 J**	**4.67E-06 J**	--	--	**1.30E-03**	--	--	--
Dioxins/Furans														
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	5.20E-06	SL-10	--	--	--	--	--	--	--	--	--	--	--
2,3,7,8-TCDD	mg/kg	5.20E-06	SL-10	--	--	--	--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)														
1-Methylnaphthalene	mg/kg	20	SL-1	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene	mg/kg	0.67	SL-8	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene	mg/kg	0.5	SL-8	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene	mg/kg	1.3	SL-8	--	--	--	--	--	--	--	--	--	--	--
Anthracene	mg/kg	0.96	SL-8	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene	mg/kg	0.67	SL-8	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene	mg/kg	1.7	SL-8	--	--	--	--	--	--	--	--	--	--	--
Fluorene	mg/kg	0.54	SL-8	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	mg/kg	0.039	SL-3	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene	mg/kg	1.5	SL-8	--	--	--	--	--	--	--	--	--	--	--
Pyrene	mg/kg	2.6	SL-8	--	--	--	--	--	--	--	--	--	--	--
Benz(a)anthracene	mg/kg	0.73	SL-9	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	0.00031	SL-3	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	44	SL-9	--	--	--	--	--	--	--	--	--	--	--
Benzo(j)fluoranthene	mg/kg			--	--	--	--	--	--	--	--	--	--	--
Benzo(j,k)fluoranthene	mg/kg			--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	mg/kg	71	SL-9	--	--	--	--	--	--	--	--	--	--	--
Chrysene	mg/kg	1.4	SL-8	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	0.23	SL-8	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	0.6	SL-8	--	--	--	--	--	--	--	--	--	--	--
Total Benzofluoranthenes	mg/kg	1.1	SL-9	--	--	--	--	--	--	--	--	--	--	--
Total HPAHs (ND = 1/2 RDL)	mg/kg	1.1	SL-9	--	--	--	--	--	--	--	--	--	--	--
Total LPAHs (ND = 1/2 RDL)	mg/kg	5.2	SL-8	--	--	--	--	--	--	--	--	--	--	--
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	0.00031	SL-3	--	--	--	--	--	--	--	--	--	--	--
Semivolatile Organic Compounds (SVOCs)														
1,2-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	mg/kg	0.00068	SL-3	--	--	--	--	--	--	--	--	--	--	--
1,3-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--	--	--
1,4-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	mg/kg	2400	SL-1	--	--	--	--	--	--	--	--	--	--	--
2,3,5,6-Tetrachlorophenol	mg/kg			--	--	--	--	--	--	--	--	--	--	--
2,3-Dichloroaniline	mg/kg			--	--	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	mg/kg	22	SL-3	--	--	--	--	--	--	--	--	--	--	--
2,4,6-Trichlorophenol	mg/kg	0.0033	SL-3	--	--	--	--	--	--	--	--	--	--	--
2,4-Dichlorophenol	mg/kg	0.069	SL-3	--	--	--	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	mg/kg	0.029	SL-8	--	--	--	--	--	--	--	--	--	--	--
2,4-Dinitrophenol	mg/kg	0.061	SL-9	--	--	--	--	--	--	--	--	--	--	--
2,4-Dinitrotoluene	mg/kg	0.0028	SL-3	--	--	--	--	--	--	--	--	--	--	--
2,6-Dinitrotoluene	mg/kg	0.67	SL-1	--	--	--	--	--	--	--	--	--	--	--
2-Chloronaphthalene	mg/kg	5.4	SL-3	--	--	--	--	--	--	--	--	--	--	--
2-Chlorophenol	mg/kg	0.2	SL-3	--	--	--	--	--	--	--	--	--	--	--
2-Methylphenol	mg/kg	0.063	SL-8	--	--	--	--	--	--	--	--	--	--	--
2-Nitroaniline	mg/kg	800	SL-1	--	--	--	--	--	--	--	--	--	--	--
2-Nitrophenol	mg/kg			--	--	--	--	--	--	--	--	--	--	--
3 & 4 Methylphenol	mg/kg			--	--	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	mg/kg	2.20E-04	SL-3	--	--	--	--	--	--	--	--	--	--	--
3-Nitroaniline	mg/kg			--	--	--	--	--	--	--	--	--	--	--
4,6-Dinitro-2-methylphenol	mg/kg	0.13	SL-3	--	--	--	--	--	--	--	--	--	--	--
4-Bromophenyl phenyl ether	mg/kg			--	--	--	--	--	--	--	--	--	--	--
4-Chloro-3-methylphenol	mg/kg	0.5	SL-3	--	--	--	--	--	--	--	--	--	--	--
4-Chloroaniline	mg/kg	5	SL-1	--	--	--	--	--	--	--	--	--	--	--
4-Chlorophenyl phenyl ether	mg/kg			--	--	--	--	--	--	--	--	--	--	--
4-Methylphenol	mg/kg	0.67	SL-8	--	--	--	--	--	--	--	--	--	--	--
4-Nitroaniline	mg/kg	22	SL-9	--	--	--	--	--	--	--	--	--	--	--
4-Nitrophenol	mg/kg			--	--	--	--	--	--	--	--	--	--	--
Aniline	mg/kg	180	SL-1	--	--	--	--	--	--	--	--	--	--	--
Benzoic acid	mg/kg	0.65	SL-8	--	--	--	--	--	--	--	--	--	--	--
Benzyl alcohol	mg/kg	0.057	SL-8	--	--	--	--	--	--	--	--	--	--	--
Benzyl butyl phthalate	mg/kg	0.0036	SL-3	--	--	--	--	--	--	--	--	--	--	--
Bis(2-chloro-1-methylethyl) ether	mg/kg	0.59	SL-3	--	--	--	--	--	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	mg/kg	240	SL-1	--	--	--	--	--	--	--	--	--	--	--
Bis(2-chloroethyl) ether	mg/kg	0.00033	SL-3	--	--	--	--	--	--	--	--	--	--	--
bis(2-Chloroisopropyl)ether	mg/kg			--	--	--	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) adipate	mg/kg	830	SL-1	--	--	--	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate	mg/kg	0.02	SL-9	--	--	--	--	--	--	--	--	--	--	--
Carbazole	mg/kg	79	SL-9	--	--	--	--	--	--	--	--	--	--	--
Dibenzofuran	mg/kg	0.54	SL-8	--	--	--	--	--	--	--	--	--	--	--
Diethyl phthalate	mg/kg	0.2	SL-8	--	--	--	--	--	--	--	--	--	--	--
Dimethyl phthalate	mg/kg	0.071	SL-8	--	--	--	--	--	--	--	--	--	--	--
Di-n-butyl phthalate	mg/kg	0.011	SL-9	--	--	--	--	--	--	--	--	--	--	--
Di-n-octyl phthalate	mg/kg	0.91	SL-9	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobenzene	mg/kg	8.00E-06	SL-3	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	0.00021	SL-3	--	--	--	--	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	mg/kg	0.032	SL-3	--	--	--	--	--	--	--	--	--	--	--
Hexachloroethane	mg/kg	0.00016	SL-3	--	--	--	--	--	--	--	--	--	--	--
Isophorone	mg/kg	0.58	SL-3	--	--	--	--	--	--	--	--	--	--	--
Nitrobenzene	mg/kg	0.64	SL-3	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine	mg/kg	0.0015	SL-3	--	--	--	--	--	--	--	--	--	--	--
N-Nitroso-di-n-propylamine	mg/kg	0.00055	SL-3	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	mg/kg	0.028	SL-8	--	--	--	--	--	--	--	--	--	--	--
Pentachlorophenol	mg/kg	3.20E-05	SL-3	--	--	--	--	--	--	--	--	--	--	--
Phenol	mg/kg	0.42	SL-8	--	--	--	--	--	--	--	--	--	--	--
Pyridine	mg/kg	80	SL-1	--	--	--	--	--	--	--	--	--	--	--

Table I.3.B. Vadose Soil Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL

			Location	**SS-23**	**SS-24**	**SS-25**	**SS-26**	**SS-27**	**SS-31**	**SS-32**	**SS-33**	**SS-34**	**SS-35**	**SS-36**
			Date	02/08/16	02/10/16	02/08/16	02/08/16	02/08/16	11/17/17	11/17/17	11/17/17	11/17/17	11/17/17	11/17/17
			Sample	SPM-SS-23-02082016	SPM-SS-24-02102016	SPM-SS-25-02082016	SPM-SS-26-02082016	SPM-SS-27-02082016	SS-31-0-1.5	SS-32-0-1.5	SS-33-0-1.5	SS-34-0-1.5	SS-35-0-1.5	SS-36-0-1.5
			Depth	0 - 1.6 ft	0 - 1.6 ft	0 - 1.6 ft	0 - 1.6 ft	0 - 1.6 ft	0 - 1.5 ft	0 - 1.5 ft	0 - 1.5 ft	0 - 1.5 ft	0 - 1.5 ft	0 - 1.5 ft
			Geologic Unit	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill
Analyte	Unit	Prelmiinary RI SL	Basis of SL											
Pesticides														
2,4'-DDD	mg/kg			--	--	--	--	--	--	--	--	--	--	--
2,4'-DDE	mg/kg			--	--	--	--	--	--	--	--	--	--	--
2,4'-DDT	mg/kg			--	--	--	--	--	--	--	--	--	--	--
4,4'-DDD	mg/kg	7.30E-06	SL-3	--	--	--	--	--	--	--	--	--	--	--
4,4'-DDE	mg/kg	1.50E-06	SL-3	--	--	--	--	--	--	--	--	--	--	--
4,4'-DDT	mg/kg	1.60E-05	SL-3	--	--	--	--	--	--	--	--	--	--	--
Aldrin	mg/kg	4.00E-08	SL-3	--	--	--	--	--	--	--	--	--	--	--
Alpha-BHC	mg/kg	1.90E-06	SL-3	--	--	--	--	--	--	--	--	--	--	--
Beta-BHC	mg/kg	6.60E-05	SL-3	--	--	--	--	--	--	--	--	--	--	--
Chlordane	mg/kg	2.30E-05	SL-3	--	--	--	--	--	--	--	--	--	--	--
cis-Chlordane	mg/kg	0.0001	SL-8	--	--	--	--	--	--	--	--	--	--	--
cis-Nonachlor	mg/kg			--	--	--	--	--	--	--	--	--	--	--
Delta-BHC	mg/kg	0.0048	SL-1	--	--	--	--	--	--	--	--	--	--	--
Dieldrin	mg/kg	3.60E-08	SL-3	--	--	--	--	--	--	--	--	--	--	--
Endosulfan I	mg/kg	0.0012	SL-3	--	--	--	--	--	--	--	--	--	--	--
Endosulfan II	mg/kg	0.0012	SL-3	--	--	--	--	--	--	--	--	--	--	--
Endosulfan Sulfate	mg/kg	2	SL-3	--	--	--	--	--	--	--	--	--	--	--
Endrin	mg/kg	0.00044	SL-3	--	--	--	--	--	--	--	--	--	--	--
Endrin Aldehyde	mg/kg	0.0024	SL-3	--	--	--	--	--	--	--	--	--	--	--
Endrin ketone	mg/kg			--	--	--	--	--	--	--	--	--	--	--
Heptachlor	mg/kg	6.60E-08	SL-3	--	--	--	--	--	--	--	--	--	--	--
Heptachlor Epoxide	mg/kg	4.90E-07	SL-3	--	--	--	--	--	--	--	--	--	--	--
Lindane	mg/kg	0.0039	SL-3	--	--	--	--	--	--	--	--	--	--	--
Methoxychlor	mg/kg	0.032	SL-3	--	--	--	--	--	--	--	--	--	--	--
Mirex	mg/kg	0.0071	SL-3	--	--	--	--	--	--	--	--	--	--	--
Oxychlordane	mg/kg			--	--	--	--	--	--	--	--	--	--	--
Toxaphene	mg/kg	6.10E-05	SL-3	--	--	--	--	--	--	--	--	--	--	--
trans-Chlordane	mg/kg	0.0001	SL-8	--	--	--	--	--	--	--	--	--	--	--
trans-Nonachlor	mg/kg			--	--	--	--	--	--	--	--	--	--	--
Total Petroleum Hydrocarbons (TPH)														
Gasoline Range Organics	mg/kg	30	SL-3	--	--	--	--	--	--	--	--	--	--	--
Diesel Range Organics	mg/kg	2000	SL-9	--	--	--	--	--	--	--	--	--	--	--
Motor Oil Range Organics	mg/kg	2000	SL-9	--	--	--	--	--	--	--	--	--	--	--
Diesel and Oil Extended Range Organics	mg/kg	2000	SL-9	--	--	--	--	--	--	--	--	--	--	--
Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)														
Benzene	mg/kg	0.0088	SL-3	--	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg	0.72	SL-3	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	0.18	SL-3	--	--	--	--	--	--	--	--	--	--	--
Total Xylenes	mg/kg	0.94	SL-3	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds (VOCs)														
1,1,1,2-Tetrachloroethane	mg/kg	38	SL-1	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	370	SL-3	--	--	--	--	--	--	--	--	--	--	--
1,1,2 - Trichlorotrifluoroethane	mg/kg	2400000	SL-1	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	0.0017	SL-3	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	0.005	SL-3	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	180	SL-1	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	11	SL-9	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	mg/kg			--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	64	SL-1	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	0.0063	SL-1	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	0.0014	SL-3	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	800	SL-1	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	mg/kg	0.23	SL-1	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	mg/kg	0.5	SL-1	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	0.035	SL-8	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane (EDC)	mg/kg	0.35	SL-3	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	0.016	SL-3	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	800	SL-1	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	0.023	SL-3	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	mg/kg	0.0066	SL-3	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichloro-2-Butene	mg/kg			--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	0.11	SL-8	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	mg/kg			--	--	--	--	--	--	--	--	--	--	--
2-Butanone	mg/kg	350	SL-9	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl Vinyl Ether	mg/kg			--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	1600	SL-1	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	mg/kg	400	SL-1	--	--	--	--	--	--	--	--	--	--	--
2-Pentanone	mg/kg			--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	1600	SL-1	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone	mg/kg	6400	SL-1	--	--	--	--	--	--	--	--	--	--	--
Acetone	mg/kg	1.2	SL-9	--	--	--	--	--	--	--	--	--	--	--
Acrolein	mg/kg	0.0044	SL-3	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	mg/kg	0.00012	SL-3	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	mg/kg	640	SL-1	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	mg/kg			--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	0.013	SL-3	--	--	--	--	--	--	--	--	--	--	--
Bromoform	mg/kg	0.078	SL-3	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	mg/kg	0.24	SL-9	--	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	mg/kg	0.81	SL-9	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	0.0029	SL-3	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	mg/kg	1.7	SL-3	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	mg/kg			--	--	--	--	--	--	--	--	--	--	--
Chloroform	mg/kg	0.81	SL-3	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	mg/kg			--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene (DCE)	mg/kg	24	SL-9	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	0.0056	SL-3	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	mg/kg	0.01	SL-3	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	mg/kg	800	SL-1	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg	16000	SL-1	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	mg/kg	8000	SL-1	--	--	--	--	--	--	--	--	--	--	--
m,p-Xylenes	mg/kg			--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	mg/kg	560	SL-1	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	mg/kg	0.43	SL-3	--	--	--	--	--	--	--	--	--	--	--
Methyliodide	mg/kg			--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	4000	SL-1	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	mg/kg	4800	SL-1	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	8000	SL-1	--	--	--	--	--	--	--	--	--	--	--
o-Xylene	mg/kg			--	--	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene	mg/kg	320	SL-1	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	mg/kg	8000	SL-1	--	--	--	--	--	--	--	--	--	--	--
Styrene	mg/kg	4.7	SL-9	--	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	mg/kg	8000	SL-1	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	mg/kg	0.029	SL-3	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	0.78	SL-3	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	0.0056	SL-3	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	mg/kg	0.0044	SL-3	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg	24000	SL-1	--	--	--	--	--	--	--	--	--	--	--
Vinyl Acetate	mg/kg	80000	SL-1	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	0.0011	SL-3	--	--	--	--	--	--	--	--	--	--	--
Conventionals														
Total Organic Carbon	%			**0.46**	**0.446**	**0.573**	**0.13**	**0.252**	--	--	--	--	--	--
Total Solids	%			--	--	--	--	--	--	--	--	--	--	--

Table I.3.B. Vadose Soil Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL

				Location	SS-37	SS-38	SS-39	TRANS-A-BOT	TRANS-A-TOP	TRANS-B-BOT	TRANS-B-TOP
				Date	11/17/17	11/17/17	11/17/17	10/08/2007	10/09/2007	10/08/2007	10/09/2007
				Sample	SS-37-0-1.5	SS-38-0-1	SS-39-0-1.25	TRANS-A-BOT	TRANS-A-TOP	TRANS-B-BOT	TRANS-B-TOP
				Depth	0 - 1.5 ft	0 - 1 ft	0 - 1.25 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft
				Geologic Unit	Fill	Fill	Fill	Fill	Fill	Fill	Fill
Analyte	Unit	Prelmiinary RI SL	Basis of SL								
Metals, Total											
Arsenic	mg/kg	7.3	SL-10	--	--	--	**4.9**	**4.9**	**2.5**	**10.8**
Barium	mg/kg	250	SL-10	--	--	--	**0.216**	**0.442**	**0.218**	**1.08**
Cadmium	mg/kg	0.77	SL-10	--	--	--	**16.2**	**16.4**	**20.8**	**22.2**
Chromium	mg/kg	67	SL-9	--	--	--	**249**	**74.6**	**146**	**1020**
Copper	mg/kg	36	SL-10	--	--	--	**55.9**	**39.7**	**25.2**	**121**
Lead	mg/kg	120	SL-9	--	--	--	**0.208**	**0.07**	**0.023**	**0.187**
Mercury	mg/kg	0.07	SL-10	--	--	--	--	--	--	--
Nickel	mg/kg	48	SL-10	--	--	--	--	--	--	--
Selenium	mg/kg	0.78	SL-10	--	--	--	--	--	--	--
Silver	mg/kg	0.61	SL-10	--	--	--	**0.082**	**0.191**	**0.137**	**0.191**
Zinc	mg/kg	100	SL-3	--	--	--	**109**	**250**	**83.4**	**528**
Butyl Tins										
Dibutyltin Ion	mg/kg			--	--	--	--	--	--	--
Monobutyltin	mg/kg			--	--	--	--	--	--	--
Tetrabutyltin	mg/kg			--	--	--	--	--	--	--
Tributyltin Ion	mg/kg	0.0021	SL-8	--	--	--	--	--	--	--
Polychlorinated Biphenyl (PCB) Aroclors										
Total PCB Aroclors (ND = 0)	mg/kg	1.10E-05	SL-3	< 0.053 UA	**66 A**	**10 A**	**0.17 A**	**0.073 A**	**0.13 A**	**0.32 A**
Polychlorinated Biphenyl (PCB) Congeners										
Total PCB Congeners (ND = 0)	mg/kg	1.10E-05	SL-3	--	**49.2 J**	**6.04 J**	--	--	--	--
Total PCB TEQ (ND = 0)	mg/kg	6.90E-09	SL-3	--	**8.38E-04**	**2.19E-04**	--	--	--	--
Dioxins/Furans										
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	5.20E-06	SL-10	--	--	--	--	--	--	--
2,3,7,8-TCDD	mg/kg	5.20E-06	SL-10	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)										
1-Methylnaphthalene	mg/kg	20	SL-1	--	--	--	--	--	--	--
2-Methylnaphthalene	mg/kg	0.67	SL-8	--	--	--	< 0.0044 U	< 0.19 U	< 0.0098 U	< 0.014 U
Acenaphthene	mg/kg	0.5	SL-8	--	--	--	< 0.0042 U	< 0.19 U	< 0.0098 U	< 0.048 U
Acenaphthylene	mg/kg	1.3	SL-8	--	--	--	< 0.0062 U	< 0.19 U	< 0.0019 U	< 0.015 U
Anthracene	mg/kg	0.96	SL-8	--	--	--	< 0.011 U	< 0.19 U	< 0.003 U	< 0.035 U
Benzo(g,h,i)perylene	mg/kg	0.67	SL-8	--	--	--	**0.092**	< 0.19 U	< 0.02 U	**0.29**
Fluoranthene	mg/kg	1.7	SL-8	--	--	--	**0.17**	< 0.19 U	< 0.03 U	< 0.36 U
Fluorene	mg/kg	0.54	SL-8	--	--	--	**0.0046**	< 0.19 U	< 0.0098 U	**0.012 J**
Naphthalene	mg/kg	0.039	SL-3	--	--	--	< 0.0058 U	< 0.19 U	< 0.0098 U	< 0.017 U
Phenanthrene	mg/kg	1.5	SL-8	--	--	--	< 0.077 U	< 0.19 U	< 0.011 U	< 0.13 U
Pyrene	mg/kg	2.6	SL-8	--	--	--	< 0.17 U	< 0.19 U	< 0.03 U	< 0.38 U
Benz(a)anthracene	mg/kg	0.73	SL-9	--	--	--	**0.058**	< 0.19 U	< 0.012 U	< 0.19 U
Benzo(a)pyrene	mg/kg	0.00031	SL-3	--	--	--	**0.076**	< 0.19 U	< 0.016 U	< 0.25 U
Benzo(b)fluoranthene	mg/kg	44	SL-9	--	--	--	**0.14**	< 0.19 U	< 0.026 U	**0.51**
Benzo(j)fluoranthene	mg/kg			--	--	--	--	--	--	--
Benzo(j,k)fluoranthene	mg/kg			--	--	--	--	--	--	--
Benzo(k)fluoranthene	mg/kg	71	SL-9	--	--	--	**0.05**	< 0.19 U	< 0.009 U	**0.16**
Chrysene	mg/kg	1.4	SL-8	--	--	--	**0.12**	< 0.19 U	< 0.024 U	< 0.42 U
Dibenzo(a,h)anthracene	mg/kg	0.23	SL-8	--	--	--	**0.015**	< 0.19 U	**0.0042**	**0.064**
Indeno(1,2,3-cd)pyrene	mg/kg	0.6	SL-8	--	--	--	**0.098**	< 0.19 U	< 0.017 U	**0.33**
Total Benzofluoranthenes	mg/kg	1.1	SL-9	--	--	--	--	--	--	--
Total HPAHs (ND = 1/2 RDL)	mg/kg	1.1	SL-9	--	--	--	**0.904**	< 0.19 U	**0.0962**	**2.15**
Total LPAHs (ND = 1/2 RDL)	mg/kg	5.2	SL-8	--	--	--	**0.0567**	< 0.19 U	< 0.01 U	**0.135 J**
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	0.00031	SL-3	--	--	--	**0.113**	< 0.14345 U	**0.0117**	**0.243**
Semivolatile Organic Compounds (SVOCs)										
1,2-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	mg/kg	0.00068	SL-3	--	--	--	--	--	--	--
1,3-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--
1,4-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	mg/kg	2400	SL-1	--	--	--	--	--	--	--
2,3,5,6-Tetrachlorophenol	mg/kg			--	--	--	--	--	--	--
2,3-Dichloroaniline	mg/kg			--	--	--	--	--	--	--
2,4,5-Trichlorophenol	mg/kg	22	SL-3	--	--	--	--	--	--	--
2,4,6-Trichlorophenol	mg/kg	0.0033	SL-3	--	--	--	--	--	--	--
2,4-Dichlorophenol	mg/kg	0.069	SL-3	--	--	--	--	--	--	--
2,4-Dimethylphenol	mg/kg	0.029	SL-8	--	--	--	< 0.048 U	< 0.94 U	< 0.049 U	< 0.24 U
2,4-Dinitrophenol	mg/kg	0.061	SL-9	--	--	--	--	--	--	--
2,4-Dinitrotoluene	mg/kg	0.0028	SL-3	--	--	--	--	--	--	--
2,6-Dinitrotoluene	mg/kg	0.67	SL-1	--	--	--	--	--	--	--
2-Chloronaphthalene	mg/kg	5.4	SL-3	--	--	--	--	--	--	--
2-Chlorophenol	mg/kg	0.2	SL-3	--	--	--	--	--	--	--
2-Methylphenol	mg/kg	0.063	SL-8	--	--	--	< 0.0095 U	< 0.19 U	< 0.0098 U	< 0.048 U
2-Nitroaniline	mg/kg	800	SL-1	--	--	--	--	--	--	--
2-Nitrophenol	mg/kg			--	--	--	--	--	--	--
3 & 4 Methylphenol	mg/kg			--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	mg/kg	2.20E-04	SL-3	--	--	--	--	--	--	--
3-Nitroaniline	mg/kg			--	--	--	--	--	--	--
4,6-Dinitro-2-methylphenol	mg/kg	0.13	SL-3	--	--	--	--	--	--	--
4-Bromophenyl phenyl ether	mg/kg			--	--	--	--	--	--	--
4-Chloro-3-methylphenol	mg/kg	0.5	SL-3	--	--	--	--	--	--	--
4-Chloroaniline	mg/kg	5	SL-1	--	--	--	--	--	--	--
4-Chlorophenyl phenyl ether	mg/kg			--	--	--	--	--	--	--
4-Methylphenol	mg/kg	0.67	SL-8	--	--	--	**0.0084**	< 0.19 U	< 0.0098 U	< 0.048 U
4-Nitroaniline	mg/kg	22	SL-9	--	--	--	--	--	--	--
4-Nitrophenol	mg/kg			--	--	--	--	--	--	--
Aniline	mg/kg	180	SL-1	--	--	--	--	--	--	--
Benzoic acid	mg/kg	0.65	SL-8	--	--	--	**0.17**	< 3.8 U	< 0.2 U	**0.72 J**
Benzyl alcohol	mg/kg	0.057	SL-8	--	--	--	**0.048**	< 0.38 U	**0.011**	**0.94**
Benzyl butyl phthalate	mg/kg	0.0036	SL-3	--	--	--	**0.14**	**0.26**	**0.018**	**0.41**
Bis(2-chloro-1-methylethyl) ether	mg/kg	0.59	SL-3	--	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	mg/kg	240	SL-1	--	--	--	--	--	--	--
Bis(2-chloroethyl) ether	mg/kg	0.00033	SL-3	--	--	--	--	--	--	--
bis(2-Chloroisopropyl)ether	mg/kg			--	--	--	--	--	--	--
Bis(2-ethylhexyl) adipate	mg/kg	830	SL-1	--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate	mg/kg	0.02	SL-9	--	--	--	**0.33**	< 0.31 U	< 0.076 U	**2.3**
Carbazole	mg/kg	79	SL-9	--	--	--	--	--	--	--
Dibenzofuran	mg/kg	0.54	SL-8	--	--	--	**0.0037**	< 0.19 U	< 0.0098 U	**0.0083 J**
Diethyl phthalate	mg/kg	0.2	SL-8	--	--	--	< 0.0035 U	< 0.19 U	< 0.002 U	< 0.039 U
Dimethyl phthalate	mg/kg	0.071	SL-8	--	--	--	**0.62**	**0.74**	**0.08**	**3.7**
Di-n-butyl phthalate	mg/kg	0.011	SL-9	--	--	--	**0.17**	< 0.38 U	< 0.028 U	< 0.43 U
Di-n-octyl phthalate	mg/kg	0.91	SL-9	--	--	--	< 0.0095 U	< 0.19 U	**0.0067**	< 0.048 U
Hexachlorobenzene	mg/kg	8.00E-06	SL-3	--	--	--	< 0.0095 U	< 0.19 U	< 0.0098 U	< 0.048 U
Hexachlorobutadiene	mg/kg	0.00021	SL-3	--	--	--	< 0.0095 U	< 0.19 U	< 0.0098 U	< 0.048 U
Hexachlorocyclopentadiene	mg/kg	0.032	SL-3	--	--	--	--	--	--	--
Hexachloroethane	mg/kg	0.00016	SL-3	--	--	--	--	--	--	--
Isophorone	mg/kg	0.58	SL-3	--	--	--	--	--	--	--
Nitrobenzene	mg/kg	0.64	SL-3	--	--	--	--	--	--	--
N-Nitrosodimethylamine	mg/kg	0.0015	SL-3	--	--	--	--	--	--	--
N-Nitroso-di-n-propylamine	mg/kg	0.00055	SL-3	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	mg/kg	0.028	SL-8	--	--	--	< 0.0095 U	< 0.19 U	< 0.0098 U	< 0.048 U
Pentachlorophenol	mg/kg	3.20E-05	SL-3	--	--	--	< 0.095 U	< 1.9 U	< 0.098 U	< 0.48 U
Phenol	mg/kg	0.42	SL-8	--	--	--	< 0.055 U	< 0.56 U	< 0.028 U	< 0.25 U
Pyridine	mg/kg	80	SL-1	--	--	--	--	--	--	--

Table I.3.B. Vadose Soil Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL

				Location	SS-37	SS-38	SS-39	TRANS-A-BOT	TRANS-A-TOP	TRANS-B-BOT	TRANS-B-TOP
				Date	11/17/17	11/17/17	11/17/17	10/08/2007	10/09/2007	10/08/2007	10/09/2007
				Sample	SS-37-0-1.5	SS-38-0-1	SS-39-0-1.25	TRANS-A-BOT	TRANS-A-TOP	TRANS-B-BOT	TRANS-B-TOP
				Depth	0 - 1.5 ft	0 - 1 ft	0 - 1.25 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft
				Geologic Unit	Fill	Fill	Fill	Fill	Fill	Fill	Fill
Analyte	Unit	Prelmiinary RI SL	Basis of SL								
Pesticides											
2,4'-DDD	mg/kg				--	--	--	**0.0085 J**	**0.0018**	**0.0037**	< 0.0073 U
2,4'-DDE	mg/kg				--	--	--	< 0.00079 U	< 0.0015 U	< 0.00078 U	< 0.00079 U
2,4'-DDT	mg/kg				--	--	--	< 0.004 U	**0.0063 J**	< 0.0021 U	**0.027 J**
4,4'-DDD	mg/kg	7.30E-06	SL-3		--	--	--	**0.0038**	< 0.0015 U	< 0.00078 U	**0.006**
4,4'-DDE	mg/kg	1.50E-06	SL-3		--	--	--	**0.0009 J**	< 0.0015 U	< 0.00078 U	< 0.00079 U
4,4'-DDT	mg/kg	1.60E-05	SL-3		--	--	--	**0.027 J**	< 0.0053 U	**0.017 J**	**0.095 J**
Aldrin	mg/kg	4.00E-08	SL-3		--	--	--	< 0.00079 U	< 0.0015 U	< 0.00078 U	< 0.00079 U
Alpha-BHC	mg/kg	1.90E-06	SL-3		--	--	--	--	--	--	--
Beta-BHC	mg/kg	6.60E-05	SL-3		--	--	--	--	--	--	--
Chlordane	mg/kg	2.30E-05	SL-3		--	--	--	< 0.0099 U	< 0.015 U	< 0.0078 U	< 0.022 U
cis-Chlordane	mg/kg	0.0001	SL-8		--	--	--	--	--	--	--
cis-Nonachlor	mg/kg				--	--	--	--	--	--	--
Delta-BHC	mg/kg	0.0048	SL-1		--	--	--	--	--	--	--
Dieldrin	mg/kg	3.60E-08	SL-3		--	--	--	< 0.00079 U	< 0.0015 U	< 0.00078 U	< 0.0021 U
Endosulfan I	mg/kg	0.0012	SL-3		--	--	--	--	--	--	--
Endosulfan II	mg/kg	0.0012	SL-3		--	--	--	--	--	--	--
Endosulfan Sulfate	mg/kg	2	SL-3		--	--	--	--	--	--	--
Endrin	mg/kg	0.00044	SL-3		--	--	--	--	--	--	--
Endrin Aldehyde	mg/kg	0.0024	SL-3		--	--	--	--	--	--	--
Endrin ketone	mg/kg				--	--	--	--	--	--	--
Heptachlor	mg/kg	6.60E-08	SL-3		--	--	--	< 0.00079 U	< 0.0015 U	< 0.00078 U	< 0.00079 U
Heptachlor Epoxide	mg/kg	4.90E-07	SL-3		--	--	--	--	--	--	--
Lindane	mg/kg	0.0039	SL-3		--	--	--	< 0.00079 U	< 0.0015 U	< 0.00078 U	< 0.00079 U
Methoxychlor	mg/kg	0.032	SL-3		--	--	--	--	--	--	--
Mirex	mg/kg	0.0071	SL-3		--	--	--	--	--	--	--
Oxychlordane	mg/kg				--	--	--	--	--	--	--
Toxaphene	mg/kg	6.10E-05	SL-3		--	--	--	--	--	--	--
trans-Chlordane	mg/kg	0.0001	SL-8		--	--	--	--	--	--	--
trans-Nonachlor	mg/kg				--	--	--	--	--	--	--
Total Petroleum Hydrocarbons (TPH)											
Gasoline Range Organics	mg/kg	30	SL-3		--	--	--	< 20 U	< 20 U	< 20 U	< 5.1 U
Diesel Range Organics	mg/kg	2000	SL-9		--	--	--	**26**	**1300 J**	< 50 U	**160 J**
Motor Oil Range Organics	mg/kg	2000	SL-9		--	--	--	**240 J**	**360 J**	< 100 U	**620 J**
Diesel and Oil Extended Range Organics	mg/kg	2000	SL-9		--	--	--	**266 J**	**1660 J**	< 100 U	**780 J**
Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)											
Benzene	mg/kg	0.0088	SL-3		--	--	--	--	--	--	--
Toluene	mg/kg	0.72	SL-3		--	--	--	--	--	--	--
Ethylbenzene	mg/kg	0.18	SL-3		--	--	--	--	--	--	--
Total Xylenes	mg/kg	0.94	SL-3		--	--	--	--	--	--	--
Volatile Organic Compounds (VOCs)											
1,1,1,2-Tetrachloroethane	mg/kg	38	SL-1		--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	370	SL-3		--	--	--	--	--	--	--
1,1,2 - Trichlorotrifluoroethane	mg/kg	2400000	SL-1		--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	0.0017	SL-3		--	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	0.005	SL-3		--	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	180	SL-1		--	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	11	SL-9		--	--	--	--	--	--	--
1,1-Dichloropropene	mg/kg				--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	64	SL-1		--	--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	0.0063	SL-1		--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	0.0014	SL-3		--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	800	SL-1		--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	mg/kg	0.23	SL-1		--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	mg/kg	0.5	SL-1		--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	0.035	SL-8		--	--	--	--	--	--	--
1,2-Dichloroethane (EDC)	mg/kg	0.35	SL-3		--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	0.016	SL-3		--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	800	SL-1		--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	0.023	SL-3		--	--	--	--	--	--	--
1,3-Dichloropropane	mg/kg	0.0066	SL-3		--	--	--	--	--	--	--
1,4-Dichloro-2-Butene	mg/kg				--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	0.11	SL-8		--	--	--	--	--	--	--
2,2-Dichloropropane	mg/kg				--	--	--	--	--	--	--
2-Butanone	mg/kg	350	SL-9		--	--	--	--	--	--	--
2-Chloroethyl Vinyl Ether	mg/kg				--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	1600	SL-1		--	--	--	--	--	--	--
2-Hexanone	mg/kg	400	SL-1		--	--	--	--	--	--	--
2-Pentanone	mg/kg				--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	1600	SL-1		--	--	--	--	--	--	--
4-Methyl-2-pentanone	mg/kg	6400	SL-1		--	--	--	--	--	--	--
Acetone	mg/kg	1.2	SL-9		--	--	--	--	--	--	--
Acrolein	mg/kg	0.0044	SL-3		--	--	--	--	--	--	--
Acrylonitrile	mg/kg	0.00012	SL-3		--	--	--	--	--	--	--
Bromobenzene	mg/kg	640	SL-1		--	--	--	--	--	--	--
Bromochloromethane	mg/kg				--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	0.013	SL-3		--	--	--	--	--	--	--
Bromoform	mg/kg	0.078	SL-3		--	--	--	--	--	--	--
Bromomethane	mg/kg	0.24	SL-9		--	--	--	--	--	--	--
Carbon Disulfide	mg/kg	0.81	SL-9		--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	0.0029	SL-3		--	--	--	--	--	--	--
Chlorobenzene	mg/kg	1.7	SL-3		--	--	--	--	--	--	--
Chloroethane	mg/kg				--	--	--	--	--	--	--
Chloroform	mg/kg	0.81	SL-3		--	--	--	--	--	--	--
Chloromethane	mg/kg				--	--	--	--	--	--	--
cis-1,2-Dichloroethene (DCE)	mg/kg	24	SL-9		--	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	0.0056	SL-3		--	--	--	--	--	--	--
Dibromochloromethane	mg/kg	0.01	SL-3		--	--	--	--	--	--	--
Dibromomethane	mg/kg	800	SL-1		--	--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg	16000	SL-1		--	--	--	--	--	--	--
Isopropylbenzene	mg/kg	8000	SL-1		--	--	--	--	--	--	--
m,p-Xylenes	mg/kg				--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	mg/kg	560	SL-1		--	--	--	--	--	--	--
Methylene Chloride	mg/kg	0.43	SL-3		--	--	--	--	--	--	--
Methyliodide	mg/kg				--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	4000	SL-1		--	--	--	--	--	--	--
n-Hexane	mg/kg	4800	SL-1		--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	8000	SL-1		--	--	--	--	--	--	--
o-Xylene	mg/kg				--	--	--	--	--	--	--
p-Isopropyltoluene	mg/kg	320	SL-1		--	--	--	--	--	--	--
sec-Butylbenzene	mg/kg	8000	SL-1		--	--	--	--	--	--	--
Styrene	mg/kg	4.7	SL-9		--	--	--	--	--	--	--
tert-Butylbenzene	mg/kg	8000	SL-1		--	--	--	--	--	--	--
Tetrachloroethene (PCE)	mg/kg	0.029	SL-3		--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	0.78	SL-3		--	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	0.0056	SL-3		--	--	--	--	--	--	--
Trichloroethene (TCE)	mg/kg	0.0044	SL-3		--	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg	24000	SL-1		--	--	--	--	--	--	--
Vinyl Acetate	mg/kg	80000	SL-1		--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	0.0011	SL-3		--	--	--	--	--	--	--
Conventionals											
Total Organic Carbon	%				--	--	--	--	--	--	--
Total Solids	%				--	--	--	**85**	**91.6**	**85.6**	**83.2**

Table I.3.B. Vadose Soil Analytical Results

South Park Marina Site, Seattle, Washington

Notes:

Bold - detected

mg/kg = milligrams per kilogram

"--" = Results not available

U = Analyte not detected at or above Reporting Limit (RL) shown

J = Result value estimated

UJ = Analyte not detected, and the Reporting Limit (RL) is an estimate

R = Rejected, refer to data validation report

RDL = reported detection limit

RI = Remedial Investigation

SL = screening level

MTCA = Model Toxics Control Act

PCB = polychlorinated biphenyl

All soil/solids concentrations are on a dry-weight basis.

Vadose zone is considered from ground surface to 6 feet below ground surface (bgs).

Total PCB Arolclors (ND = 0) are the sum of Aroclors presented, with nondetects = 0, unless all Aroclors were not detected, in which case the Total PCB Aroclors concentration is shown as non-detect at the maximum reporting limit for any individual Aroclor presented.

Total PCB Congeners (ND = 0) and Total PCB TEQ (ND = 0) are summed with nondetects = 0.

LPAHs = low molecular weight polycyclic aromatic hydrocarbons: naphthalene, acenaphthylene, acenaphethene, fluorene, phenanthrene, and anthracene.
HPAHs = high molecular weight polycyclic aromatic hydrocarbons: fluoranthene, pyrene, benz(a)anthracene, chrysene, total benzofluoranthenes, benzo(a)pyrene, indeno(1,2,3,-c,d)pyrene, dibenzo(a,h)anthracene, and benzo(g,h,i)perylene.
cPAHs = carcinogenic polycyclic aromatic hydrocarbons: benzo(a)pyrene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene.

TEQ = toxic equivalency

Screening Level Codes:

SL-1	Direct Contact Unrestricted
SL-3	Protection of Surface Water via Groundwater - Vadose Zone
SL-4	Protect Sediment via Groundwater - Vadose Zone
SL-8	Protect Sediment via Erosion
SL-9	Site-Specific Terrestrial Ecological Evaluation Unrestricted
SL-10	Natural Background

Screening Level Notes:

Screening level shading is hierarchical: If only nondetect values exceed the screening level, the screening level is shaded grey; if detected results (and potentially nondetected results) exceed the screening level, the screening level is shaded blue.

Gray Shaded - Nondetect result has a reporting limit that exceeds a screening level.

Blue Shaded - Detected result exceeded the screening level.

Table I.3.C. Saturated Soil Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL

				Location	B-01	B-02	B-03	B-04	MW-04			
				Date	11/17/17	11/17/17	11/17/17	11/17/17	03/04/21	03/04/21	03/04/21	03/04/21
				Sample	B-01-8.5-9.5	B-02-6.5-7	B-03-6.5-7	B-04-6.5-7	MW-4-7-8	MW-4-10.5-11.5	MW-4-13.5-14.5	MW-4-18-20
				Depth	8.5 - 9.5 ft	6.5 - 7 ft	6.5 - 7 ft	6.5 - 7 ft	7 - 8 ft	10.5 - 11.5 ft	13.5 - 14.5 ft	18 - 20 ft
				Geologic Unit	Fill	Fill	Tidal Flat	Tidal Flat	Fill	Tidal Flat	Alluvial	Alluvial
Analyte	Unit	Preliminary RI SL	Basis of SL									
Metals, Total												
Arsenic	mg/kg	7.3	SL-10	--	--	--	--	**1.88**	**29.3**	**2.92**	**1.7**
Barium	mg/kg	250	SL-10	--	--	--	--	--	--	--	--
Cadmium	mg/kg	0.77	SL-10	--	--	--	--	**0.08 J**	**0.07 J**	**0.7**	**0.05 J**
Chromium	mg/kg	67	SL-9	--	--	--	--	**21.6**	**9.92**	**35.5**	**8.78**
Copper	mg/kg	36	SL-10	--	--	--	--	**9.18**	**20.7**	**37.9**	**10.4**
Lead	mg/kg	81	SL-6	--	--	--	--	**9.7 J**	**3.18 J**	**166 J**	**1.34**
Mercury	mg/kg	0.07	SL-10	--	--	--	--	**0.0141 J**	**0.0234 J**	**0.422**	--
Nickel	mg/kg	48	SL-10	--	--	--	--	**9.59**	**8.51**	**12.3**	**7.66**
Selenium	mg/kg	0.78	SL-10	--	--	--	--	--	--	--	--
Silver	mg/kg	0.61	SL-10	--	--	--	--	--	--	--	--
Zinc	mg/kg	85	SL-10	--	--	--	--	**30.4**	**25.5**	**94.8**	**26.1**
Butyl Tins											
Dibutyltin Ion	mg/kg			--	--	--	--	--	--	--	--
Monobutyltin	mg/kg			--	--	--	--	--	--	--	--
Tetrabutyltin	mg/kg			--	--	--	--	--	--	--	--
Tributyltin Ion	mg/kg	0.00011	SL-7	--	--	--	--	--	--	--	--
Polychlorinated Biphenyl (PCB) Aroclors											
Total PCB Aroclors (ND = 0)	mg/kg	5.5E-07	SL-6	< 0.064 UA	**131 JA**	**13.6 A**	**10.7 A**	**26.4**	**0.171**	**5.78**	**0.006 J**
Polychlorinated Biphenyl (PCB) Congeners											
Total PCB Congeners (ND = 0)	mg/kg	5.5E-07	SL-6	--	**99.1 J**	--	--	**22.1 J**	--	--	--
Total PCB TEQ (ND = 0)	mg/kg	3.5E-10	SL-6	--	**2.51E-03 J**	--	--	**4.71E-04**	--	--	--
Dioxins/Furans											
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	5.2E-06	SL-10	--	--	--	--	**1.00E-03 J**	--	--	--
2,3,7,8-TCDD	mg/kg	5.2E-06	SL-10	--	--	--	--	**4.45E-05**	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)											
1-Methylnaphthalene	mg/kg	20	SL-1	--	--	--	--	**0.0836 J**	**0.00784**	**0.0122**	**0.00107 J**
2-Methylnaphthalene	mg/kg	0.039	SL-7	--	--	--	--	**0.102 J**	**0.0151**	**0.0216**	**0.00142 J**
Acenaphthene	mg/kg	0.028	SL-7	--	--	--	--	**0.411**	**0.0101**	**0.0876**	< 0.00498 U
Acenaphthylene	mg/kg	1.3	SL-8	--	--	--	--	**0.0583**	**0.00259 J**	**0.0374**	< 0.00498 U
Anthracene	mg/kg	0.051	SL-7	--	--	--	--	**0.904**	**0.00982**	**0.284**	< 0.00498 U
Benzo(g,h,i)perylene	mg/kg	0.67	SL-8	--	--	--	--	**0.0756**	**0.0361**	**0.0259**	< 0.00498 U
Fluoranthene	mg/kg	0.09	SL-7	--	--	--	--	**0.681**	**0.0443**	**0.185**	< 0.00498 U
Fluorene	mg/kg	0.029	SL-7	--	--	--	--	**0.696**	**0.0132**	**0.2**	< 0.00498 U
Naphthalene	mg/kg	0.0021	SL-6	--	--	--	--	< 0.0497 U	**0.00484 J**	< 0.00667 U	< 0.00498 U
Phenanthrene	mg/kg	1.5	SL-8	--	--	--	--	< 0.0497 U	**0.0283**	**0.0233**	**0.0019 J**
Pyrene	mg/kg	0.14	SL-7	--	--	--	--	**0.517**	**0.0457**	**0.17**	< 0.00498 U
Benz(a)anthracene	mg/kg	0.73	SL-9	--	--	--	--	**0.179**	**0.0156**	**0.054**	< 0.00498 U
Benzo(a)pyrene	mg/kg	1.6E-05	SL-6	--	--	--	--	**0.108**	**0.0171**	**0.0343**	< 0.00498 U
Benzo(b)fluoranthene	mg/kg	44	SL-9	--	--	--	--	**0.106**	**0.0163**	**0.0297**	< 0.00498 U
Benzo(j)fluoranthene	mg/kg			--	--	--	--	**0.0569**	**0.0106**	**0.0156**	< 0.00498 U
Benzo(j,k)fluoranthene	mg/kg			--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	mg/kg	71	SL-9	--	--	--	--	**0.0545**	**0.00937**	**0.017**	< 0.00498 U
Chrysene	mg/kg	1.4	SL-8	--	--	--	--	**0.282**	**0.0233**	**0.0873**	< 0.00498 U
Dibenzo(a,h)anthracene	mg/kg	0.23	SL-8	--	--	--	--	**0.0195 J**	**0.00336 J**	**0.00704**	< 0.00498 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.6	SL-8	--	--	--	--	**0.0595**	**0.0161**	**0.0175**	< 0.00498 U
Total Benzofluoranthenes	mg/kg	1.1	SL-9	--	--	--	--	**0.208**	**0.0363**	**0.0655**	< 0.00997 U
Total HPAHs (ND = 1/2 RDL)	mg/kg	1.1	SL-9	--	--	--	--	**2.14 J**	**0.238 J**	**0.643**	< 0.00498 U
Total LPAHs (ND = 1/2 RDL)	mg/kg	5.2	SL-8	--	--	--	--	**2.12**	**0.0688 J**	**0.635**	**0.0143 J**
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	1.6E-05	SL-6	--	--	--	--	**0.153 J**	**0.0234 J**	**0.0477**	< 0.00376 U
Semi-Volatile Organic Compounds (SVOCs)											
1,2-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	mg/kg	3.6E-05	SL-6	--	--	--	--	--	--	--	--
1,3-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--
1,4-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	mg/kg	2400	SL-1	--	--	--	--	--	--	--	--
2,3,5,6-Tetrachlorophenol	mg/kg			--	--	--	--	--	--	--	--
2,3-Dichloroaniline	mg/kg			--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	mg/kg	1.1	SL-6	--	--	--	--	< 0.0997 U	< 0.0997 U	< 0.1 U	< 0.0999 U
2,4,6-Trichlorophenol	mg/kg	0.00019	SL-6	--	--	--	--	< 0.0997 U	< 0.0997 U	< 0.1 U	< 0.0999 U
2,4-Dichlorophenol	mg/kg	0.0043	SL-6	--	--	--	--	< 0.0997 U	< 0.0997 U	< 0.1 U	< 0.0999 U
2,4-Dimethylphenol	mg/kg	0.0023	SL-7	--	--	--	--	**0.0376 J**	< 0.0997 U	< 0.1 U	< 0.0999 U
2,4-Dinitrophenol	mg/kg	0.029	SL-6	--	--	--	--	< 0.199 UJ	< 0.199 UJ	< 0.2 UJ	< 0.2 UJ
2,4-Dinitrotoluene	mg/kg	0.00016	SL-6	--	--	--	--	< 0.0997 U	< 0.0997 U	< 0.1 U	< 0.0999 U
2,6-Dinitrotoluene	mg/kg	0.67	SL-1	--	--	--	--	< 0.0997 U	< 0.0997 U	< 0.1 U	< 0.0999 U
2-Chloronaphthalene	mg/kg	0.28	SL-6	--	--	--	--	< 0.0199 U	< 0.0199 U	< 0.02 U	< 0.02 U
2-Chlorophenol	mg/kg	0.011	SL-6	--	--	--	--	< 0.0199 U	< 0.0199 U	< 0.02 U	< 0.02 U
2-Methylphenol	mg/kg	0.0058	SL-7	--	--	--	--	< 0.0199 U	< 0.0199 U	< 0.02 U	< 0.02 U
2-Nitroaniline	mg/kg	800	SL-1	--	--	--	--	< 0.0997 U	< 0.0997 U	< 0.1 U	< 0.0999 U
2-Nitrophenol	mg/kg			--	--	--	--	< 0.0199 U	< 0.0199 U	< 0.02 U	< 0.02 U
3 & 4 Methylphenol	mg/kg			--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	mg/kg	1.1E-05	SL-6	--	--	--	--	< 0.997 U	< 0.0997 U	< 0.1 U	< 0.0999 U
3-Nitroaniline	mg/kg			--	--	--	--	< 0.0997 U	< 0.0997 U	< 0.1 U	< 0.0999 U
4,6-Dinitro-2-methylphenol	mg/kg	0.0073	SL-6	--	--	--	--	< 0.199 UJ	< 0.199 UJ	< 0.2 UJ	< 0.2 U
4-Bromophenyl phenyl ether	mg/kg			--	--	--	--	< 0.0199 U	< 0.0199 U	< 0.02 U	< 0.02 U
4-Chloro-3-methylphenol	mg/kg	0.028	SL-6	--	--	--	--	< 0.0997 U	< 0.0997 U	< 0.1 U	< 0.0999 U
4-Chloroaniline	mg/kg	5	SL-1	--	--	--	--	< 0.0997 U	< 0.0997 U	< 0.1 U	< 0.0999 U
4-Chlorophenyl phenyl ether	mg/kg			--	--	--	--	< 0.0199 U	< 0.0199 U	< 0.02 U	< 0.02 U
4-Methylphenol	mg/kg	0.062	SL-7	--	--	--	--	< 0.0199 U	< 0.0199 U	< 0.02 U	< 0.02 U
4-Nitroaniline	mg/kg	22	SL-9	--	--	--	--	< 0.0997 U	< 0.0997 U	< 0.1 U	< 0.0999 U
4-Nitrophenol	mg/kg			--	--	--	--	< 0.0997 U	< 0.0997 U	< 0.1 U	< 0.0999 U
Aniline	mg/kg	180	SL-1	--	--	--	--	--	--	--	--
Benzidine	mg/kg	3.4E-08	SL-6	--	--	--	--	--	--	--	--
Benzoic acid	mg/kg	0.17	SL-7	--	--	--	--	**0.433 J**	< 0.199 UJ	**0.138 J**	< 0.2 U
Benzyl alcohol	mg/kg	0.017	SL-7	--	--	--	--	< 0.0199 U	< 0.0199 U	< 0.02 U	< 0.02 U
Benzyl butyl phthalate	mg/kg	0.00018	SL-6	--	--	--	--	< 0.0199 U	< 0.0199 U	< 0.02 U	< 0.02 U
Bis(2-chloro-1-methylethyl) ether	mg/kg	0.038	SL-6	--	--	--	--	< 0.0199 U	< 0.0199 U	< 0.02 U	< 0.02 U
Bis(2-chloroethoxy)methane	mg/kg	240	SL-1	--	--	--	--	< 0.0199 U	< 0.0199 U	< 0.02 U	< 0.02 U
Bis(2-chloroethyl) ether	mg/kg	2.2E-05	SL-6	--	--	--	--	< 0.0199 U	< 0.0199 U	< 0.02 U	< 0.02 U
bis(2-Chloroisopropyl)ether	mg/kg			--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) adipate	mg/kg	830	SL-1	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate	mg/kg	0.0051	SL-6	--	--	--	--	**1.52**	**0.0373 J**	**0.617**	< 0.0499 U
Carbazole	mg/kg	79	SL-9	--	--	--	--	< 0.0199 U	< 0.0199 U	< 0.02 U	< 0.02 U
Dibenzofuran	mg/kg	0.029	SL-7	--	--	--	--	**0.248**	**0.00631**	**0.0714**	< 0.00498 U
Diethyl phthalate	mg/kg	0.034	SL-7	--	--	--	--	< 0.0199 U	< 0.0199 U	**0.0667**	< 0.02 U
Dimethyl phthalate	mg/kg	0.019	SL-7	--	--	--	--	< 0.0199 U	< 0.0199 U	< 0.02 U	< 0.02 U
Di-n-butyl phthalate	mg/kg	0.011	SL-9	--	--	--	--	< 0.0199 U	< 0.0199 U	< 0.02 U	< 0.02 U
Di-n-octyl phthalate	mg/kg	0.33	SL-7	--	--	--	--	< 0.199 U	< 0.0199 U	< 0.02 U	< 0.02 U
Hexachlorobenzene	mg/kg	4E-07	SL-6	--	--	--	--	< 0.01 U	< 0.0025 U	< 0.00498 U	< 0.0005 U
Hexachlorobutadiene	mg/kg	1.1E-05	SL-6	--	--	--	--	**0.0115 J**	< 0.0025 U	< 0.00498 U	< 0.0005 U
Hexachlorocyclopentadiene	mg/kg	0.0017	SL-6	--	--	--	--	< 0.0997 UJ	< 0.0997 UJ	< 0.1 UJ	< 0.0999 UJ
Hexachloroethane	mg/kg	9.7E-06	SL-6	--	--	--	--	< 0.0199 U	< 0.0199 U	< 0.02 U	< 0.02 U
Isophorone	mg/kg	0.039	SL-6	--	--	--	--	< 0.0199 U	< 0.0199 U	**0.0688**	< 0.02 U
Nitrobenzene	mg/kg	0.041	SL-6	--	--	--	--	< 0.0199 U	< 0.0199 U	< 0.02 U	< 0.02 U
N-Nitrosodimethylamine	mg/kg	0.00011	SL-6	--	--	--	--	--	--	--	--
N-Nitroso-di-n-propylamine	mg/kg	3.3E-05	SL-6	--	--	--	--	< 0.0199 U	< 0.0199 U	< 0.02 U	< 0.02 U
N-Nitrosodiphenylamine	mg/kg	0.0016	SL-7	--	--	--	--	< 0.0199 U	< 0.0199 U	< 0.02 U	< 0.02 U
Pentachlorophenol	mg/kg	1.8E-06	SL-6	--	--	--	--	< 0.0997 UJ	< 0.0997 UJ	< 0.1 UJ	< 0.0999 UJ
Phenol	mg/kg	0.048	SL-7	--	--	--	--	< 0.0199 U	< 0.0199 U	< 0.02 U	< 0.02 U
Pyridine	mg/kg	80	SL-1	--	--	--	--	--	--	--	--

Table I.3.C. Saturated Soil Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL

			Location	**B-01**	**B-02**	**B-03**	**B-04**	**MW-04**			
			Date	11/17/17	11/17/17	11/17/17	11/17/17	03/04/21	03/04/21	03/04/21	03/04/21
			Sample	B-01-8.5-9.5	B-02-6.5-7	B-03-6.5-7	B-04-6.5-7	MW-4-7-8	MW-4-10.5-11.5	MW-4-13.5-14.5	MW-4-18-20
			Depth	8.5 - 9.5 ft	6.5 - 7 ft	6.5 - 7 ft	6.5 - 7 ft	7 - 8 ft	10.5 - 11.5 ft	13.5 - 14.5 ft	18 - 20 ft
			Geologic Unit	Fill	Fill	Tidal Flat	Tidal Flat	Fill	Tidal Flat	Alluvial	Alluvial
Analyte	Unit	Preliminary RI SL	Basis of SL								
Pesticides											
2,4'-DDD	mg/kg			--	--	--	--	< 0.02 U	< 0.005 U	< 0.00997 U	< 0.001 U
2,4'-DDE	mg/kg			--	--	--	--	< 8.88 U	< 0.005 U	< 2.49 U	< 0.001 U
2,4'-DDT	mg/kg			--	--	--	--	< 8.88 U	< 0.005 U	< 0.00997 U	< 0.001 U
4,4'-DDD	mg/kg	3.6E-07	SL-6	--	--	--	--	< 0.02 U	< 0.005 U	< 0.00997 U	< 0.001 U
4,4'-DDE	mg/kg	7.6E-08	SL-6	--	--	--	--	< 6.66 U	< 0.005 U	< 2.99 U	< 0.001 U
4,4'-DDT	mg/kg	8.1E-07	SL-6	--	--	--	--	< 11.1 U	< 0.005 U	< 2.99 U	< 0.001 U
Aldrin	mg/kg	2E-09	SL-6	--	--	--	--	**7.46**	**0.0439**	**2.39**	< 0.0005 U
Alpha-BHC	mg/kg	9.8E-08	SL-6	--	--	--	--	< 0.01 U	< 0.0025 U	**0.014**	< 0.0005 U
Beta-BHC	mg/kg	3.4E-06	SL-6	--	--	--	--	< 0.01 U	< 0.0025 U	< 0.00498 U	< 0.0005 U
Chlordane	mg/kg	1.1E-06	SL-6	--	--	--	--	--	--	--	--
cis-Chlordane	mg/kg	5.3E-06	SL-7	--	--	--	--	< 1.98 U	< 0.0025 U	< 0.997 U	< 0.0005 U
cis-Nonachlor	mg/kg			--	--	--	--	< 4.44 U	< 0.005 U	< 0.00997 U	< 0.001 U
Delta-BHC	mg/kg	0.0048	SL-1	--	--	--	--	< 0.01 U	< 0.0025 U	< 0.00498 U	< 0.0005 U
Dieldrin	mg/kg	1.8E-09	SL-6	--	--	--	--	**1.75**	**0.00585 J**	< 2.99 U	< 0.001 U
Endosulfan I	mg/kg	6.1E-05	SL-6	--	--	--	--	< 0.01 U	< 0.0025 U	< 0.00498 U	< 0.0005 U
Endosulfan II	mg/kg	6.1E-05	SL-6	--	--	--	--	< 4.44 U	< 0.005 U	< 0.498 U	< 0.001 U
Endosulfan Sulfate	mg/kg	0.1	SL-6	--	--	--	--	< 0.02 U	< 0.005 U	< 0.00997 U	< 0.001 U
Endrin	mg/kg	2.2E-05	SL-6	--	--	--	--	< 0.02 U	< 0.005 U	< 0.00997 U	< 0.001 UJ
Endrin Aldehyde	mg/kg	0.00012	SL-6	--	--	--	--	< 0.02 U	< 0.005 U	< 0.00997 U	< 0.001 U
Endrin ketone	mg/kg			--	--	--	--	< 1.98 U	< 0.005 U	< 0.797 U	< 0.001 U
Heptachlor	mg/kg	3.3E-09	SL-6	--	--	--	--	< 1.32 U	< 0.0025 U	< 0.00498 U	< 0.0005 U
Heptachlor Epoxide	mg/kg	2.5E-08	SL-6	--	--	--	--	< 0.01 U	< 0.0025 U	< 0.00498 U	< 0.0005 U
Lindane	mg/kg	0.00021	SL-6	--	--	--	--	< 0.01 U	< 0.0025 U	< 0.00498 U	< 0.0005 U
Methoxychlor	mg/kg	0.0016	SL-6	--	--	--	--	< 0.1 U	< 0.025 U	< 0.0498 U	< 0.00499 U
Mirex	mg/kg	0.00036	SL-6	--	--	--	--	< 0.02 U	< 0.005 U	< 1.99 U	< 0.001 U
Oxychlordane	mg/kg			--	--	--	--	< 0.02 U	< 0.005 U	< 0.00997 U	< 0.001 U
Toxaphene	mg/kg	3.1E-06	SL-6	--	--	--	--	--	--	--	--
trans-Chlordane	mg/kg	5.3E-06	SL-7	--	--	--	--	< 6.66 U	< 0.0025 U	< 0.997 U	< 0.0005 U
trans-Nonachlor	mg/kg			--	--	--	--	< 0.02 U	< 0.005 U	< 0.00997 U	< 0.001 U
Total Petroleum Hydrocarbons (TPH)											
Gasoline Range Organics	mg/kg	30	SL-3	--	--	--	--	**650**	< 12.8 U	< 8.72 U	< 8.16 U
Diesel Range Organics	mg/kg	2000	SL-9	--	--	--	--	**7090**	< 83.7 U	**1770**	< 67.5 U
Motor Oil Range Organics	mg/kg	2000	SL-9	--	--	--	--	**18700**	**202**	**5150**	< 135 U
Diesel and Oil Extended Range Organics	mg/kg	2000	SL-9	--	--	--	--	**25800**	**202**	**6920**	< 135 U
Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)											
Benzene	mg/kg	0.00056	SL-6	--	--	--	--	< 0.057 U	**0.00356**	< 0.00133 U	< 0.00138 U
Toluene	mg/kg	0.044	SL-6	--	--	--	--	< 0.057 U	**0.00116 J**	**0.00035 J**	< 0.00138 U
Ethylbenzene	mg/kg	0.01	SL-6	--	--	--	--	< 0.057 U	< 0.00183 U	< 0.00133 U	< 0.00138 U
Total Xylenes	mg/kg	0.055	SL-6	--	--	--	--	< 0.114 U	**0.00836**	< 0.00267 U	< 0.00275 U
Volatile Organic Compounds (VOCs)											
1,1,1,2-Tetrachloroethane	mg/kg	38	SL-1	--	--	--	--	< 0.057 U	< 0.00183 U	< 0.00133 U	< 0.00138 U
1,1,1-Trichloroethane	mg/kg	21	SL-6	--	--	--	--	< 0.057 U	< 0.00183 U	< 0.00133 U	< 0.00138 U
1,1,2 - Trichlorotrifluoroethane	mg/kg	2400000	SL-1	--	--	--	--	< 0.114 U	< 0.00367 U	< 0.00267 U	< 0.00275 U
1,1,2,2-Tetrachloroethane	mg/kg	0.00011	SL-6	--	--	--	--	< 0.057 U	< 0.00183 U	< 0.00133 U	< 0.00138 U
1,1,2-Trichloroethane	mg/kg	0.00033	SL-6	--	--	--	--	< 0.057 U	< 0.00183 U	< 0.00133 U	< 0.00138 U
1,1-Dichloroethane	mg/kg	180	SL-1	--	--	--	--	< 0.057 U	< 0.00183 U	< 0.00133 U	< 0.00138 U
1,1-Dichloroethene	mg/kg	1.4	SL-6	--	--	--	--	< 0.057 U	< 0.00183 U	< 0.00133 U	< 0.00138 U
1,1-Dichloropropene	mg/kg			--	--	--	--	< 0.057 U	< 0.00183 U	< 0.00133 U	< 0.00138 U
1,2,3-Trichlorobenzene	mg/kg	64	SL-9	--	--	--	--	< 0.285 U	< 0.00917 U	< 0.00667 U	< 0.00688 U
1,2,3-Trichloropropane	mg/kg	0.0063	SL-1	--	--	--	--	< 0.114 U	< 0.00367 U	< 0.00267 U	< 0.00275 U
1,2,4-Trichlorobenzene	mg/kg	7.2E-05	SL-6	--	--	--	--	< 0.0199 U	< 0.00917 U	< 0.00667 U	< 0.00688 U
1,2,4-Trimethylbenzene	mg/kg	800	SL-1	--	--	--	--	< 0.057 U	**0.023**	< 0.00133 U	< 0.00138 U
1,2-Dibromo-3-chloropropane	mg/kg	0.23	SL-1	--	--	--	--	< 0.285 U	< 0.00917 U	< 0.00667 U	< 0.00688 U
1,2-Dibromoethane (EDB)	mg/kg	0.5	SL-1	--	--	--	--	< 0.057 U	< 0.00183 U	< 0.00133 U	< 0.00138 U
1,2-Dichlorobenzene	mg/kg	0.003	SL-7	--	--	--	--	**0.035**	< 0.00183 U	**0.0107 J**	< 0.00138 U
1,2-Dichloroethane (EDC)	mg/kg	0.024	SL-6	--	--	--	--	< 0.057 U	< 0.00183 U	< 0.00133 U	< 0.00138 U
1,2-Dichloropropane	mg/kg	0.001	SL-6	--	--	--	--	< 0.057 U	< 0.00183 U	< 0.00133 U	< 0.00138 U
1,3,5-Trimethylbenzene	mg/kg	800	SL-1	--	--	--	--	< 0.057 U	**0.00104 J**	< 0.00133 U	< 0.00138 U
1,3-Dichlorobenzene	mg/kg	0.0013	SL-6	--	--	--	--	< 0.0199 U	< 0.00183 U	< 0.00133 U	< 0.00138 U
1,3-Dichloropropane	mg/kg	0.00043	SL-6	--	--	--	--	< 0.057 U	< 0.00183 U	< 0.00133 U	< 0.00138 U
1,4-Dichloro-2-Butene	mg/kg			--	--	--	--	< 0.285 U	< 0.00917 U	< 0.00667 U	< 0.00688 U
1,4-Dichlorobenzene	mg/kg	0.0081	SL-7	--	--	--	--	**0.009 J**	< 0.00183 U	< 0.00133 U	< 0.00138 U
2,2-Dichloropropane	mg/kg			--	--	--	--	< 0.057 U	< 0.00183 U	< 0.00133 U	< 0.00138 U
2-Butanone	mg/kg	350	SL-9	--	--	--	--	< 0.285 U	**0.00803 J**	< 0.00667 U	< 0.00688 U
2-Chloroethyl Vinyl Ether	mg/kg			--	--	--	--	< 0.285 U	< 0.00917 U	< 0.00667 U	< 0.00688 UJ
2-Chlorotoluene	mg/kg	1600	SL-1	--	--	--	--	< 0.057 U	< 0.00183 U	< 0.00133 U	< 0.00138 U
2-Hexanone	mg/kg	400	SL-1	--	--	--	--	< 0.285 U	< 0.00917 U	< 0.00667 U	< 0.00688 U
2-Pentanone	mg/kg			--	--	--	--	< 0.285 U	< 0.00917 U	< 0.00667 U	< 0.00688 UJ
4-Chlorotoluene	mg/kg	1600	SL-1	--	--	--	--	< 0.057 U	< 0.00183 U	< 0.00133 U	< 0.00138 U
4-Methyl-2-pentanone	mg/kg	6400	SL-1	--	--	--	--	< 0.285 U	< 0.00917 U	< 0.00667 U	< 0.00688 U
Acetone	mg/kg	1.2	SL-9	--	--	--	--	< 0.285 U	**0.121**	**0.0839 J**	**0.0551**
Acrolein	mg/kg	0.00032	SL-6	--	--	--	--	< 0.285 U	< 0.00917 U	< 0.00667 U	< 0.00688 U
Acrylonitrile	mg/kg	8.3E-06	SL-6	--	--	--	--	< 0.285 U	< 0.00917 U	< 0.00667 U	< 0.00688 U
Bromobenzene	mg/kg	640	SL-1	--	--	--	--	< 0.057 U	< 0.00183 U	< 0.00133 U	< 0.00138 U
Bromochloromethane	mg/kg			--	--	--	--	< 0.057 U	< 0.00183 U	< 0.00133 U	< 0.00138 U
Bromodichloromethane	mg/kg	0.00089	SL-6	--	--	--	--	< 0.057 U	< 0.00183 U	< 0.00133 U	< 0.00138 U
Bromoform	mg/kg	0.005	SL-6	--	--	--	--	< 0.057 U	< 0.00183 U	< 0.00133 U	< 0.00138 U
Bromomethane	mg/kg	0.079	SL-6	--	--	--	--	**0.115**	< 0.00183 U	< 0.00133 U	< 0.00138 U
Carbon Disulfide	mg/kg	0.81	SL-9	--	--	--	--	< 0.057 U	**0.00325**	< 0.00133 U	**0.00231**
Carbon Tetrachloride	mg/kg	0.00015	SL-6	--	--	--	--	< 0.057 U	< 0.00183 U	< 0.00133 U	< 0.00138 U
Chlorobenzene	mg/kg	0.1	SL-6	--	--	--	--	< 0.057 U	< 0.00183 U	< 0.00133 U	< 0.00138 U
Chloroethane	mg/kg			--	--	--	--	< 0.057 U	< 0.00367 U	< 0.00267 U	< 0.00275 U
Chloroform	mg/kg	0.052	SL-6	--	--	--	--	< 0.057 U	< 0.00183 U	< 0.00133 U	< 0.00138 U
Chloromethane	mg/kg			--	--	--	--	< 0.057 U	< 0.00183 U	< 0.00133 U	< 0.00138 U
cis-1,2-Dichloroethene (DCE)	mg/kg	24	SL-9	--	--	--	--	< 0.057 U	< 0.00183 U	< 0.00133 U	< 0.00138 UJ
cis-1,3-Dichloropropene	mg/kg	0.00038	SL-6	--	--	--	--	< 0.057 U	< 0.00183 U	< 0.00133 U	< 0.00138 U
Dibromochloromethane	mg/kg	0.00070	SL-6	--	--	--	--	< 0.057 U	< 0.00183 U	< 0.00133 U	< 0.00138 U
Dibromomethane	mg/kg	800	SL-1	--	--	--	--	< 0.057 U	< 0.00183 U	< 0.00133 U	< 0.00138 U
Dichlorodifluoromethane	mg/kg	16000	SL-1	--	--	--	--	< 0.057 U	< 0.00183 U	< 0.00133 U	< 0.00138 U
Isopropylbenzene	mg/kg	8000	SL-1	--	--	--	--	< 0.057 U	< 0.00183 U	< 0.00133 U	< 0.00138 U
m,p-Xylenes	mg/kg			--	--	--	--	< 0.114 U	**0.00323 J**	< 0.00267 U	< 0.00275 U
Methyl tert-butyl ether (MTBE)	mg/kg	560	SL-1	--	--	--	--	< 0.057 U	< 0.00183 U	< 0.00133 U	< 0.00138 U
Methylene Chloride	mg/kg	0.030	SL-6	--	--	--	--	**0.114 J**	< 0.00917 U	< 0.00667 U	< 0.00688 U
Methyliodide	mg/kg			--	--	--	--	< 0.057 U	< 0.00183 U	< 0.00133 U	< 0.00138 U
n-Butylbenzene	mg/kg	4000	SL-1	--	--	--	--	< 0.057 U	< 0.00183 U	< 0.00133 U	< 0.00138 U
n-Hexane	mg/kg	4800	SL-1	--	--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	8000	SL-1	--	--	--	--	< 0.057 U	< 0.00183 U	< 0.00133 U	< 0.00138 U
o-Xylene	mg/kg			--	--	--	--	< 0.057 U	**0.00512**	< 0.00133 U	< 0.00138 U
p-Isopropyltoluene	mg/kg	320	SL-1	--	--	--	--	< 0.057 U	< 0.00183 U	< 0.00133 U	< 0.00138 U
sec-Butylbenzene	mg/kg	8000	SL-1	--	--	--	--	< 0.057 U	**0.00431**	< 0.00133 U	< 0.00138 U
Styrene	mg/kg	4.7	SL-9	--	--	--	--	< 0.057 U	< 0.00183 U	< 0.00133 U	< 0.00138 U
tert-Butylbenzene	mg/kg	8000	SL-1	--	--	--	--	< 0.057 U	**0.0008 J**	< 0.00133 U	< 0.00138 U
Tetrachloroethene (PCE)	mg/kg	0.0016	SL-6	--	--	--	--	< 0.057 U	< 0.00183 U	< 0.00133 U	< 0.00138 U
trans-1,2-Dichloroethene	mg/kg	0.32	SL-6	--	--	--	--	< 0.057 U	< 0.00183 U	< 0.00133 U	< 0.00138 U
trans-1,3-Dichloropropene	mg/kg	0.00038	SL-6	--	--	--	--	< 0.057 U	< 0.00183 U	< 0.00133 U	< 0.00138 U
Trichloroethene (TCE)	mg/kg	0.00027	SL-6	--	--	--	--	< 0.057 U	< 0.00183 U	< 0.00133 U	< 0.00138 U
Trichlorofluoromethane	mg/kg	24000	SL-1	--	--	--	--	< 0.057 U	< 0.00367 U	< 0.00267 U	< 0.00275 U
Vinyl Acetate	mg/kg	80000	SL-1	--	--	--	--	< 0.285 U	< 0.00917 U	< 0.00667 U	< 0.00688 U
Vinyl Chloride	mg/kg	5.6E-05	SL-6	--	--	--	--	< 0.057 U	< 0.00183 U	< 0.00133 U	< 0.00138 U
Conventionals											
Total Organic Carbon	%			--	--	--	--	**2.28**	**1.49**	**1.05**	--
Total Solids	%			--	--	--	--	**79.8**	**63.2**	**76.8**	--

Table I.3.C. Saturated Soil Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL

				Location	MW-04D							
				Date	09/22/22	09/22/22	09/22/22	09/22/22	09/22/22	09/22/22	09/22/22	09/22/22
				Sample	MW-04D-10-11	MW-04D-10-11-TIG	MW-04D-14-15	MW-04D-16-17	MW-04D-19-20	MW-04D-21-22	MW-04D-25-26	MW-04D-29-30
				Depth	10 - 11 ft	10 - 11 ft	14 - 15 ft	16 - 17 ft	19 - 20 ft	21 - 22 ft	25 - 26 ft	29 - 30 ft
				Geologic Unit	Tidal Flat	Tidal Flat	Tidal Flat	Tidal Flat	Alluvial	Alluvial	Till	Till
Analyte	Unit	Preliminary RI SL	Basis of SL									
Metals, Total												
Arsenic	mg/kg	7.3	SL-10	**3.38**	--	**0.787**	**1.45**	--	--	**1.8**	--
Barium	mg/kg	250	SL-10	--	--	--	--	--	--	--	--
Cadmium	mg/kg	0.77	SL-10	**2.11**	--	**0.43**	< 0.2 U	--	--	**0.232**	--
Chromium	mg/kg	67	SL-9	**46.7**	--	**20.2**	**5.78**	--	--	**17.4**	--
Copper	mg/kg	36	SL-10	**47.2**	--	**7.51**	**7.36**	--	--	**17.9**	--
Lead	mg/kg	81	SL-6	**366**	--	**96**	**2.09 J**	--	--	**5.06 J**	--
Mercury	mg/kg	0.07	SL-10	--	--	--	**0.074**	--	--	< 0.025 U	--
Nickel	mg/kg	48	SL-10	**12.4**	--	**4.72**	**5.36**	--	--	**24.9**	--
Selenium	mg/kg	0.78	SL-10	--	--	--	--	--	--	--	--
Silver	mg/kg	0.61	SL-10	--	--	--	--	--	--	--	--
Zinc	mg/kg	85	SL-10	**179**	--	**93.5**	**16.3 J**	--	--	**23.9 J**	--
Butyl Tins											
Dibutyltin Ion	mg/kg			**0.00674**	--	< 0.00573 U	< 0.00577 U	< 0.0173 U	--	< 0.00571 U	< 0.00578 U
Monobutyltin	mg/kg			**0.00914**	--	**0.00235**	**0.00264 J**	< 0.0122 U	--	< 0.00403 U	< 0.00408 U
Tetrabutyltin	mg/kg			< 0.005 U	--	< 0.00495 U	< 0.00499 U	< 0.015 U	--	< 0.00494 U	< 0.005 U
Tributyltin Ion	mg/kg	0.00011	SL-7	**0.00387**	--	**0.000596**	**0.000562 J**	< 0.0115 U	--	< 0.00381 U	< 0.00386 U
Polychlorinated Biphenyl (PCB) Aroclors											
Total PCB Aroclors (ND = 0)	mg/kg	5.5E-07	SL-6	**14**	--	**10**	**2.75**	--	< 0.004 U	< 0.004 U	< 0.004 U
Polychlorinated Biphenyl (PCB) Congeners											
Total PCB Congeners (ND = 0)	mg/kg	5.5E-07	SL-6	--	**8.72 J**	--	--	--	--	--	--
Total PCB TEQ (ND = 0)	mg/kg	3.5E-10	SL-6	--	**2.77E-04 J**	--	--	--	--	--	--
Dioxins/Furans											
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	5.2E-06	SL-10	--	--	--	--	--	--	--	--
2,3,7,8-TCDD	mg/kg	5.2E-06	SL-10	--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)											
1-Methylnaphthalene	mg/kg	20	SL-1	< 0.05 U	--	< 0.05 U	**0.0059 J**	--	--	< 0.0005 U	--
2-Methylnaphthalene	mg/kg	0.039	SL-7	< 0.05 U	--	< 0.05 U	**0.0012 J**	--	--	< 0.0005 U	--
Acenaphthene	mg/kg	0.028	SL-7	< 0.05 U	--	< 0.05 U	**0.019 J**	--	--	< 0.0005 U	--
Acenaphthylene	mg/kg	1.3	SL-8	< 0.05 U	--	< 0.05 U	< 0.0005 U	--	--	< 0.0005 U	--
Anthracene	mg/kg	0.051	SL-7	< 0.05 U	--	< 0.05 UJ	**0.042 J**	--	--	< 0.0005 U	--
Benzo(g,h,i)perylene	mg/kg	0.67	SL-8	< 0.05 U	--	< 0.05 U	**0.0035 J**	--	--	< 0.0005 U	--
Fluoranthene	mg/kg	0.09	SL-7	< 0.05 U	--	< 0.05 U	**0.033 J**	--	--	< 0.0005 U	--
Fluorene	mg/kg	0.029	SL-7	< 0.05 U	--	< 0.05 U	**0.044 J**	--	--	< 0.0005 U	--
Naphthalene	mg/kg	0.0021	SL-6	< 0.05 U	--	< 0.05 U	< 0.0005 U	--	--	< 0.0005 U	--
Phenanthrene	mg/kg	1.5	SL-8	< 0.05 U	--	< 0.05 U	**0.0078 J**	--	--	**0.0006**	--
Pyrene	mg/kg	0.14	SL-7	**0.052**	--	< 0.05 U	**0.099 J**	--	--	< 0.0005 U	--
Benz(a)anthracene	mg/kg	0.73	SL-9	< 0.05 U	--	< 0.05 U	**0.013 J**	--	--	< 0.0005 U	--
Benzo(a)pyrene	mg/kg	1.6E-05	SL-6	**0.016**	--	< 0.05 U	**0.0089 J**	--	--	< 0.0005 U	--
Benzo(b)fluoranthene	mg/kg	44	SL-9	< 0.05 U	--	< 0.05 U	**0.0085 J**	--	--	< 0.0005 U	--
Benzo(j)fluoranthene	mg/kg			--	--	--	--	--	--	--	--
Benzo(j,k)fluoranthene	mg/kg			--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	mg/kg	71	SL-9	< 0.05 U	--	< 0.05 U	**0.0038 J**	--	--	< 0.0005 U	--
Chrysene	mg/kg	1.4	SL-8	< 0.05 U	--	< 0.05 U	**0.018 J**	--	--	< 0.0005 U	--
Dibenzo(a,h)anthracene	mg/kg	0.23	SL-8	< 0.05 U	--	< 0.05 U	**0.0012 J**	--	--	< 0.0005 U	--
Indeno(1,2,3-cd)pyrene	mg/kg	0.6	SL-8	< 0.05 U	--	< 0.05 U	**0.0035 J**	--	--	< 0.0005 U	--
Total Benzofluoranthenes	mg/kg	1.1	SL-9	< 0.05 U	--	< 0.05 U	**0.0123 J**	--	--	< 0.0005 U	--
Total HPAHs (ND = 1/2 RDL)	mg/kg	1.1	SL-9	**0.268**	--	< 0.05 U	**0.192 J**	--	--	< 0.0005 U	--
Total LPAHs (ND = 1/2 RDL)	mg/kg	5.2	SL-8	< 0.05 U	--	< 0.05 UJ	**0.113 J**	--	--	**0.00185**	--
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	1.6E-05	SL-6	**0.0288**	--	< 0.0378 U	**0.0121 J**	--	--	< 0.000378 U	--
Semi-Volatile Organic Compounds (SVOCs)											
1,2-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	mg/kg	3.6E-05	SL-6	< 0.25 U	--	< 0.25 U	< 0.0025 U	--	--	--	--
1,3-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--
1,4-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	mg/kg	2400	SL-1	--	--	--	--	--	--	--	--
2,3,5,6-Tetrachlorophenol	mg/kg			--	--	--	--	--	--	--	--
2,3-Dichloroaniline	mg/kg			--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	mg/kg	1.1	SL-6	< 2.5 U	--	< 2.5 U	< 0.025 U	--	--	--	--
2,4,6-Trichlorophenol	mg/kg	0.00019	SL-6	< 2.5 U	--	< 2.5 U	< 0.025 U	--	--	--	--
2,4-Dichlorophenol	mg/kg	0.0043	SL-6	< 2.5 U	--	< 2.5 U	< 0.025 U	--	--	--	--
2,4-Dimethylphenol	mg/kg	0.0023	SL-7	< 2.5 U	--	< 2.5 U	< 0.025 U	--	--	--	--
2,4-Dinitrophenol	mg/kg	0.029	SL-6	< 7.5 U	--	< 7.5 U	< 0.075 U	--	--	--	--
2,4-Dinitrotoluene	mg/kg	0.00016	SL-6	< 1.2 U	--	< 1.2 U	< 0.012 U	--	--	--	--
2,6-Dinitrotoluene	mg/kg	0.67	SL-1	< 1.2 U	--	< 1.2 U	< 0.012 U	--	--	--	--
2-Chloronaphthalene	mg/kg	0.28	SL-6	< 0.25 U	--	< 0.25 U	< 0.0025 U	--	--	--	--
2-Chlorophenol	mg/kg	0.011	SL-6	< 2.5 U	--	< 2.5 U	< 0.025 U	--	--	--	--
2-Methylphenol	mg/kg	0.0058	SL-7	< 2.5 U	--	< 2.5 U	< 0.025 U	--	--	--	--
2-Nitroaniline	mg/kg	800	SL-1	< 1.2 U	--	< 1.2 U	< 0.012 U	--	--	--	--
2-Nitrophenol	mg/kg			< 2.5 U	--	< 2.5 U	< 0.025 U	--	--	--	--
3 & 4 Methylphenol	mg/kg			< 5 U	--	< 5 U	< 0.05 U	--	--	--	--
3,3'-Dichlorobenzidine	mg/kg	1.1E-05	SL-6	< 2.5 U	--	< 2.5 U	< 0.025 U	--	--	--	--
3-Nitroaniline	mg/kg			< 25 U	--	< 25 U	< 0.25 U	--	--	--	--
4,6-Dinitro-2-methylphenol	mg/kg	0.0073	SL-6	< 7.5 U	--	< 7.5 U	< 0.075 U	--	--	--	--
4-Bromophenyl phenyl ether	mg/kg			< 0.25 U	--	< 0.25 U	< 0.0025 U	--	--	--	--
4-Chloro-3-methylphenol	mg/kg	0.028	SL-6	< 2.5 U	--	< 2.5 U	< 0.025 U	--	--	--	--
4-Chloroaniline	mg/kg	5	SL-1	< 25 U	--	< 25 U	< 0.25 U	--	--	--	--
4-Chlorophenyl phenyl ether	mg/kg			< 0.25 U	--	< 0.25 U	< 0.0025 U	--	--	--	--
4-Methylphenol	mg/kg	0.062	SL-7	--	--	--	< 0.05 U	--	--	--	--
4-Nitroaniline	mg/kg	22	SL-9	< 25 U	--	< 25 U	< 0.25 U	--	--	--	--
4-Nitrophenol	mg/kg			< 7.5 U	--	< 7.5 U	< 0.075 U	--	--	--	--
Aniline	mg/kg	180	SL-1	--	--	--	--	--	--	--	--
Benzidine	mg/kg	3.4E-08	SL-6	--	--	--	--	--	--	--	--
Benzoic acid	mg/kg	0.17	SL-7	< 12 U	--	< 12 U	< 0.12 U	--	--	--	--
Benzyl alcohol	mg/kg	0.017	SL-7	< 2.5 U	--	< 2.5 U	< 0.025 U	--	--	--	--
Benzyl butyl phthalate	mg/kg	0.00018	SL-6	< 2.5 U	--	< 2.5 U	**0.052 J**	--	--	--	--
Bis(2-chloro-1-methylethyl) ether	mg/kg	0.038	SL-6	< 0.25 U	--	< 0.25 U	< 0.0025 U	--	--	--	--
Bis(2-chloroethoxy)methane	mg/kg	240	SL-1	< 0.25 U	--	< 0.25 U	< 0.0025 U	--	--	--	--
Bis(2-chloroethyl) ether	mg/kg	2.2E-05	SL-6	< 0.25 U	--	< 0.25 U	< 0.0025 U	--	--	--	--
bis(2-Chloroisopropyl)ether	mg/kg			--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) adipate	mg/kg	830	SL-1	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate	mg/kg	0.0051	SL-6	< 4 U	--	< 4 U	**0.098 J**	--	--	--	--
Carbazole	mg/kg	79	SL-9	< 0.25 U	--	< 0.25 U	< 0.0025 UJ	--	--	--	--
Dibenzofuran	mg/kg	0.029	SL-7	< 0.25 U	--	< 0.25 U	**0.013 J**	--	--	--	--
Diethyl phthalate	mg/kg	0.034	SL-7	< 2.5 U	--	< 2.5 U	< 0.025 U	--	--	--	--
Dimethyl phthalate	mg/kg	0.019	SL-7	< 2.5 U	--	< 2.5 U	< 0.025 U	--	--	--	--
Di-n-butyl phthalate	mg/kg	0.011	SL-9	< 2.5 U	--	< 2.5 U	< 0.025 U	--	--	--	--
Di-n-octyl phthalate	mg/kg	0.33	SL-7	< 2.5 U	--	< 2.5 U	< 0.025 J	--	--	--	--
Hexachlorobenzene	mg/kg	4E-07	SL-6	< 0.25 U	--	< 0.25 U	< 0.0025 U	--	--	--	--
Hexachlorobutadiene	mg/kg	1.1E-05	SL-6	< 0.25 U	--	< 0.25 U	< 0.0025 U	--	--	--	--
Hexachlorocyclopentadiene	mg/kg	0.0017	SL-6	< 0.75 U	--	< 0.75 U	< 0.0075 UJ	--	--	--	--
Hexachloroethane	mg/kg	9.7E-06	SL-6	< 0.25 U	--	< 0.25 U	< 0.0025 U	--	--	--	--
Isophorone	mg/kg	0.039	SL-6	< 0.25 U	--	< 0.25 U	< 0.0025 U	--	--	--	--
Nitrobenzene	mg/kg	0.041	SL-6	< 0.25 U	--	< 0.25 U	< 0.0025 U	--	--	--	--
N-Nitrosodimethylamine	mg/kg	0.00011	SL-6	< 0.25 U	--	< 0.25 U	< 0.0025 U	--	--	--	--
N-Nitroso-di-n-propylamine	mg/kg	3.3E-05	SL-6	< 0.25 U	--	< 0.25 U	< 0.0025 U	--	--	--	--
N-Nitrosodiphenylamine	mg/kg	0.0016	SL-7	< 0.25 U	--	< 0.25 UJ	< 0.0025 U	--	--	--	--
Pentachlorophenol	mg/kg	1.8E-06	SL-6	< 1.2 U	--	< 1.2 U	< 0.012 U	--	--	--	--
Phenol	mg/kg	0.048	SL-7	< 2.5 U	--	< 2.5 U	< 0.025 U	--	--	--	--
Pyridine	mg/kg	80	SL-1	--	--	--	--	--	--	--	--

Table I.3.C. Saturated Soil Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL

Location				MW-04D							
Date				09/22/22	09/22/22	09/22/22	09/22/22	09/22/22	09/22/22	09/22/22	09/22/22
Sample				MW-04D-10-11	MW-04D-10-11-TIG	MW-04D-14-15	MW-04D-16-17	MW-04D-19-20	MW-04D-21-22	MW-04D-25-26	MW-04D-29-30
Depth				10 - 11 ft	10 - 11 ft	14 - 15 ft	16 - 17 ft	19 - 20 ft	21 - 22 ft	25 - 26 ft	29 - 30 ft
Geologic Unit				Tidal Flat	Tidal Flat	Tidal Flat	Tidal Flat	Alluvial	Alluvial	Till	Till
Analyte	Unit	Preliminary RI SL	Basis of SL								
Pesticides											
2,4'-DDD	mg/kg			--	--	--	--	--	--	--	--
2,4'-DDE	mg/kg			--	--	--	--	--	--	--	--
2,4'-DDT	mg/kg			--	--	--	--	--	--	--	--
4,4'-DDD	mg/kg	3.6E-07	SL-6	< 0.1 U	--	< 0.1 U	< 0.1 U	--	--	< 0.001 U	--
4,4'-DDE	mg/kg	7.6E-08	SL-6	**0.12**	--	**0.13**	< 0.1 U	--	--	< 0.001 U	--
4,4'-DDT	mg/kg	8.1E-07	SL-6	< 0.1 U	--	< 0.1 U	< 0.1 U	--	--	< 0.001 U	--
Aldrin	mg/kg	2E-09	SL-6	**0.19**	--	**0.23**	**0.76**	--	--	< 0.0017 U	--
Alpha-BHC	mg/kg	9.8E-08	SL-6	< 0.05 U	--	< 0.05 U	< 0.05 U	--	--	< 0.0005 U	--
Beta-BHC	mg/kg	3.4E-06	SL-6	< 0.05 U	--	< 0.05 U	< 0.05 U	--	--	< 0.0005 U	--
Chlordane	mg/kg	1.1E-06	SL-6	--	--	--	--	--	--	--	--
cis-Chlordane	mg/kg	5.3E-06	SL-7	< 0.05 U	--	< 0.05 U	< 0.05 U	--	--	< 0.0005 U	--
cis-Nonachlor	mg/kg			--	--	--	--	--	--	--	--
Delta-BHC	mg/kg	0.0048	SL-1	< 0.17 UJ	--	< 0.17 UJ	< 0.17 UJ	--	--	< 0.0017 UJ	--
Dieldrin	mg/kg	1.8E-09	SL-6	**0.45**	--	**0.92**	**0.13**	--	--	< 0.001 U	--
Endosulfan I	mg/kg	6.1E-05	SL-6	< 0.05 U	--	< 0.05 U	< 0.05 U	--	--	< 0.0005 U	--
Endosulfan II	mg/kg	6.1E-05	SL-6	< 0.1 U	--	< 0.1 U	< 0.1 U	--	--	< 0.001 U	--
Endosulfan Sulfate	mg/kg	0.1	SL-6	< 0.1 U	--	< 0.1 U	< 0.1 U	--	--	< 0.001 U	--
Endrin	mg/kg	2.2E-05	SL-6	< 0.1 U	--	< 0.1 U	< 0.1 U	--	--	< 0.001 U	--
Endrin Aldehyde	mg/kg	0.00012	SL-6	< 0.1 U	--	< 0.1 U	< 0.1 U	--	--	< 0.001 U	--
Endrin ketone	mg/kg			< 0.1 U	--	< 0.1 U	< 0.1 U	--	--	< 0.001 U	--
Heptachlor	mg/kg	3.3E-09	SL-6	< 0.05 U	--	< 0.05 U	< 0.05 U	--	--	< 0.0005 U	--
Heptachlor Epoxide	mg/kg	2.5E-08	SL-6	< 0.05 U	--	< 0.05 U	< 0.05 U	--	--	< 0.0005 U	--
Lindane	mg/kg	0.00021	SL-6	< 0.05 U	--	< 0.05 U	< 0.05 U	--	--	< 0.0005 U	--
Methoxychlor	mg/kg	0.0016	SL-6	< 0.5 U	--	< 0.5 U	< 0.5 U	--	--	< 0.005 U	--
Mirex	mg/kg	0.00036	SL-6	--	--	--	--	--	--	--	--
Oxychlordane	mg/kg			--	--	--	--	--	--	--	--
Toxaphene	mg/kg	3.1E-06	SL-6	< 2.5 U	--	< 2.5 U	< 2.5 U	--	--	< 0.025 U	--
trans-Chlordane	mg/kg	5.3E-06	SL-7	< 0.17 U	--	< 0.17 U	< 0.17 U	--	--	< 0.0017 U	--
trans-Nonachlor	mg/kg			--	--	--	--	--	--	--	--
Total Petroleum Hydrocarbons (TPH)											
Gasoline Range Organics	mg/kg	30	SL-3	**17**	--	< 5 U	< 5 U	--	--	--	--
Diesel Range Organics	mg/kg	2000	SL-9	**6200**	--	**8700**	**660**	--	--	--	--
Motor Oil Range Organics	mg/kg	2000	SL-9	**39000**	--	**49000**	**1600**	--	--	--	--
Diesel and Oil Extended Range Organics	mg/kg	2000	SL-9	**45200**	--	**57700**	**2260**	--	--	--	--
Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)											
Benzene	mg/kg	0.00056	SL-6	--	--	--	< 0.001 U	--	--	--	--
Toluene	mg/kg	0.044	SL-6	--	--	--	< 0.001 U	--	--	--	--
Ethylbenzene	mg/kg	0.01	SL-6	--	--	--	< 0.001 U	--	--	--	--
Total Xylenes	mg/kg	0.055	SL-6	--	--	--	< 0.002 U	--	--	--	--
Volatile Organic Compounds (VOCs)											
1,1,1,2-Tetrachloroethane	mg/kg	38	SL-1	--	--	--	< 0.05 U	--	--	--	--
1,1,1-Trichloroethane	mg/kg	21	SL-6	--	--	--	< 0.002 U	--	--	--	--
1,1,2 - Trichlorotrifluoroethane	mg/kg	2400000	SL-1	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	0.00011	SL-6	--	--	--	< 0.05 U	--	--	--	--
1,1,2-Trichloroethane	mg/kg	0.00033	SL-6	--	--	--	< 0.005 U	--	--	--	--
1,1-Dichloroethane	mg/kg	180	SL-1	--	--	--	< 0.002 U	--	--	--	--
1,1-Dichloroethene	mg/kg	1.4	SL-6	--	--	--	< 0.001 U	--	--	--	--
1,1-Dichloropropene	mg/kg			--	--	--	< 0.05 U	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	64	SL-9	--	--	--	< 0.25 U	--	--	--	--
1,2,3-Trichloropropane	mg/kg	0.0063	SL-1	--	--	--	< 0.05 U	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	7.2E-05	SL-6	< 0.25 U	--	< 0.25 U	< 0.0025 U	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	800	SL-1	--	--	--	< 0.05 U	--	--	--	--
1,2-Dibromo-3-chloropropane	mg/kg	0.23	SL-1	--	--	--	< 0.5 U	--	--	--	--
1,2-Dibromoethane (EDB)	mg/kg	0.5	SL-1	--	--	--	< 0.005 U	--	--	--	--
1,2-Dichlorobenzene	mg/kg	0.003	SL-7	< 0.25 U	--	< 0.25 U	< 0.0025 U	--	--	--	--
1,2-Dichloroethane (EDC)	mg/kg	0.024	SL-6	--	--	--	< 0.002 U	--	--	--	--
1,2-Dichloropropane	mg/kg	0.001	SL-6	--	--	--	< 0.05 U	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	800	SL-1	--	--	--	< 0.05 U	--	--	--	--
1,3-Dichlorobenzene	mg/kg	0.0013	SL-6	< 0.25 U	--	< 0.25 U	< 0.0025 U	--	--	--	--
1,3-Dichloropropane	mg/kg	0.00043	SL-6	--	--	--	< 0.05 U	--	--	--	--
1,4-Dichloro-2-Butene	mg/kg			--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	0.0081	SL-7	< 0.25 U	--	< 0.25 U	< 0.0025 U	--	--	--	--
2,2-Dichloropropane	mg/kg			--	--	--	< 0.05 U	--	--	--	--
2-Butanone	mg/kg	350	SL-9	--	--	--	< 1 U	--	--	--	--
2-Chloroethyl Vinyl Ether	mg/kg			--	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	1600	SL-1	--	--	--	< 0.05 U	--	--	--	--
2-Hexanone	mg/kg	400	SL-1	--	--	--	< 0.5 U	--	--	--	--
2-Pentanone	mg/kg			--	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	1600	SL-1	--	--	--	< 0.05 U	--	--	--	--
4-Methyl-2-pentanone	mg/kg	6400	SL-1	--	--	--	< 1 U	--	--	--	--
Acetone	mg/kg	1.2	SL-9	--	--	--	< 5 U	--	--	--	--
Acrolein	mg/kg	0.00032	SL-6	--	--	--	--	--	--	--	--
Acrylonitrile	mg/kg	8.3E-06	SL-6	--	--	--	--	--	--	--	--
Bromobenzene	mg/kg	640	SL-1	--	--	--	< 0.05 U	--	--	--	--
Bromochloromethane	mg/kg			--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	0.00089	SL-6	--	--	--	< 0.005 U	--	--	--	--
Bromoform	mg/kg	0.005	SL-6	--	--	--	< 0.05 U	--	--	--	--
Bromomethane	mg/kg	0.079	SL-6	--	--	--	< 0.1 U	--	--	--	--
Carbon Disulfide	mg/kg	0.81	SL-9	--	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	0.00015	SL-6	--	--	--	< 0.005 U	--	--	--	--
Chlorobenzene	mg/kg	0.1	SL-6	--	--	--	< 0.05 U	--	--	--	--
Chloroethane	mg/kg			--	--	--	< 0.1 U	--	--	--	--
Chloroform	mg/kg	0.052	SL-6	--	--	--	< 0.05 U	--	--	--	--
Chloromethane	mg/kg			--	--	--	< 0.5 U	--	--	--	--
cis-1,2-Dichloroethene (DCE)	mg/kg	24	SL-9	--	--	--	< 0.001 U	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	0.00038	SL-6	--	--	--	< 0.01 U	--	--	--	--
Dibromochloromethane	mg/kg	0.00070	SL-6	--	--	--	< 0.01 U	--	--	--	--
Dibromomethane	mg/kg	800	SL-1	--	--	--	< 0.05 U	--	--	--	--
Dichlorodifluoromethane	mg/kg	16000	SL-1	--	--	--	< 0.5 U	--	--	--	--
Isopropylbenzene	mg/kg	8000	SL-1	--	--	--	< 0.05 U	--	--	--	--
m,p-Xylenes	mg/kg			--	--	--	< 0.002 U	--	--	--	--
Methyl tert-butyl ether (MTBE)	mg/kg	560	SL-1	--	--	--	< 0.001 U	--	--	--	--
Methylene Chloride	mg/kg	0.030	SL-6	--	--	--	R	--	--	--	--
Methyliodide	mg/kg			--	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	4000	SL-1	--	--	--	--	--	--	--	--
n-Hexane	mg/kg	4800	SL-1	--	--	--	< 0.25 U	--	--	--	--
n-Propylbenzene	mg/kg	8000	SL-1	--	--	--	< 0.05 U	--	--	--	--
o-Xylene	mg/kg			--	--	--	< 0.001 U	--	--	--	--
p-Isopropyltoluene	mg/kg	320	SL-1	--	--	--	< 0.05 U	--	--	--	--
sec-Butylbenzene	mg/kg	8000	SL-1	--	--	--	< 0.05 U	--	--	--	--
Styrene	mg/kg	4.7	SL-9	--	--	--	< 0.05 U	--	--	--	--
tert-Butylbenzene	mg/kg	8000	SL-1	--	--	--	< 0.05 U	--	--	--	--
Tetrachloroethene (PCE)	mg/kg	0.0016	SL-6	--	--	--	< 0.001 U	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	0.32	SL-6	--	--	--	< 0.002 U	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	0.00038	SL-6	--	--	--	< 0.01 U	--	--	--	--
Trichloroethene (TCE)	mg/kg	0.00027	SL-6	--	--	--	< 0.001 U	--	--	--	--
Trichlorofluoromethane	mg/kg	24000	SL-1	--	--	--	< 0.5 U	--	--	--	--
Vinyl Acetate	mg/kg	80000	SL-1	--	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	5.6E-05	SL-6	--	--	--	< 0.001 U	--	--	--	--
Conventionals											
Total Organic Carbon	%			--	--	--	--	--	--	--	--
Total Solids	%			--	**83.2**	--	--	--	--	--	--

Table I.3.C. Saturated Soil Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL

			Location	MW-05				
			Date	03/05/21	03/05/21	03/05/21	03/05/21	03/05/21
			Sample	MW-5-6-7	MW-5-8-9.5	MW-5-15-16	MW-5-20-22.5	MW-5-26.5-28
			Depth	6 - 7 ft	8 - 9.5 ft	15 - 16 ft	20 - 22.5 ft	26.5 - 28 ft
			Geologic Unit	Fill	Fill	Alluvial	Alluvial	Till
Analyte	Unit	Preliminary RI SL	Basis of SL					
Metals, Total								
Arsenic	mg/kg	7.3	SL-10	**1.4**	**1.12 J**	**1.75**	**1.43**	**5.29**
Barium	mg/kg	250	SL-10	--	--	--	--	--
Cadmium	mg/kg	0.77	SL-10	**3.74**	**0.26**	**0.17**	**0.08 J**	**0.13**
Chromium	mg/kg	67	SL-9	**77.3**	**20.6 J**	**12.6**	**11.6**	**50**
Copper	mg/kg	36	SL-10	**35**	**14.2**	**12.4**	**10.5**	**31**
Lead	mg/kg	81	SL-6	**586 J**	**64.5 J**	**39.3**	**10**	**7.64**
Mercury	mg/kg	0.07	SL-10	**0.211**	**0.045**	**0.0566**	--	**0.0432**
Nickel	mg/kg	48	SL-10	**8.5**	**8.52**	**7.49**	**8.37**	**58.4**
Selenium	mg/kg	0.78	SL-10	--	--	--	--	--
Silver	mg/kg	0.61	SL-10	--	--	--	--	--
Zinc	mg/kg	85	SL-10	**418**	**110 J**	**44.3**	**26.2**	**70.2**
Butyl Tins								
Dibutyltin Ion	mg/kg			< 0.0572 U	< 0.0577 U	**0.00308 J**	--	**0.0239**
Monobutyltin	mg/kg			< 0.0404 U	< 0.0408 U	**0.00188 J**	--	**0.0144**
Tetrabutyltin	mg/kg			< 0.0495 U	< 0.0499 U	< 0.00496 U	--	< 0.00496 U
Tributyltin Ion	mg/kg	0.00011	SL-7	< 0.0382 U	**0.00749 J**	**0.00281 J**	--	**0.026**
Polychlorinated Biphenyl (PCB) Aroclors								
Total PCB Aroclors (ND = 0)	mg/kg	5.5E-07	SL-6	**25.9**	**7.77 J**	**0.954**	**0.233**	**0.011 J**
Polychlorinated Biphenyl (PCB) Congeners								
Total PCB Congeners (ND = 0)	mg/kg	5.5E-07	SL-6	**36.9 J**	--	--	--	--
Total PCB TEQ (ND = 0)	mg/kg	3.5E-10	SL-6	**9.64E-04**	--	--	--	--
Dioxins/Furans								
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	5.2E-06	SL-10	--	--	--	--	--
2,3,7,8-TCDD	mg/kg	5.2E-06	SL-10	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)								
1-Methylnaphthalene	mg/kg	20	SL-1	**1.05**	**0.383 J**	**0.0517**	**0.00471 J**	< 0.00499 U
2-Methylnaphthalene	mg/kg	0.039	SL-7	**0.342**	**0.511 J**	**0.0554**	**0.00556**	< 0.00499 U
Acenaphthene	mg/kg	0.028	SL-7	**0.298**	**0.0768**	**0.0108**	**0.00175 J**	**0.0011 J**
Acenaphthylene	mg/kg	1.3	SL-8	**0.0672**	**0.0256 J**	**0.00404 J**	< 0.00498 U	< 0.00499 U
Anthracene	mg/kg	0.051	SL-7	**0.797**	**0.14**	**0.0369**	**0.00467 J**	**0.00092 J**
Benzo(g,h,i)perylene	mg/kg	0.67	SL-8	**0.0811**	**0.0221 J**	**0.00627**	**0.00152 J**	**0.00152 J**
Fluoranthene	mg/kg	0.09	SL-7	**0.62**	**0.118**	**0.0307**	**0.00489 J**	**0.00233 J**
Fluorene	mg/kg	0.029	SL-7	**0.573**	**0.118**	**0.0316**	**0.0045 J**	**0.00181 J**
Naphthalene	mg/kg	0.0021	SL-6	< 0.00596 UJ	< 0.00504 U	**0.00353 J**	**0.00167 J**	< 0.00499 U
Phenanthrene	mg/kg	1.5	SL-8	**0.94**	**0.287 J**	**0.0625**	**0.0101**	**0.00422 J**
Pyrene	mg/kg	0.14	SL-7	**0.587**	**0.121**	**0.0276**	**0.00564**	**0.00298 J**
Benz(a)anthracene	mg/kg	0.73	SL-9	**0.184**	**0.0372 J**	**0.00845**	**0.00267 J**	< 0.00499 U
Benzo(a)pyrene	mg/kg	1.6E-05	SL-6	**0.133**	**0.0314 J**	**0.00629**	**0.00188 J**	< 0.00499 U
Benzo(b)fluoranthene	mg/kg	44	SL-9	**0.118**	**0.0148 J**	**0.00704**	**0.00201 J**	< 0.00499 U
Benzo(j)fluoranthene	mg/kg			**0.0694**	**0.0169 J**	**0.00451 J**	**0.00123 J**	< 0.00499 U
Benzo(j,k)fluoranthene	mg/kg			--	--	--	--	--
Benzo(k)fluoranthene	mg/kg	71	SL-9	**0.0734**	**0.0107 J**	**0.00392 J**	**0.00135 J**	< 0.00499 U
Chrysene	mg/kg	1.4	SL-8	**0.266**	**0.0736**	**0.0166**	**0.00355 J**	**0.00199 J**
Dibenzo(a,h)anthracene	mg/kg	0.23	SL-8	**0.0226 J**	< 0.0499 U	**0.00119 J**	< 0.00498 U	< 0.00499 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.6	SL-8	**0.0918**	**0.0244 J**	**0.00514**	< 0.00498 U	< 0.00499 U
Total Benzofluoranthenes	mg/kg	1.1	SL-9	**0.257**	**0.0451 J**	**0.0152**	**0.00479 J**	< 0.00997 U
Total HPAHs (ND = 1/2 RDL)	mg/kg	1.1	SL-9	**2.25 J**	**0.495 J**	**0.118 J**	**0.0297 J**	**0.0263 J**
Total LPAHs (ND = 1/2 RDL)	mg/kg	5.2	SL-8	**2.68 J**	**0.65 J**	**0.149 J**	**0.0252 J**	**0.013 J**
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	1.6E-05	SL-6	**0.185 J**	**0.0433 J**	**0.00903 J**	**0.00302 J**	**0.00376 J**
Semi-Volatile Organic Compounds (SVOCs)								
1,2-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--
1,2-Diphenylhydrazine	mg/kg	3.6E-05	SL-6	--	--	--	--	--
1,3-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--
1,4-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	mg/kg	2400	SL-1	--	--	--	--	--
2,3,5,6-Tetrachlorophenol	mg/kg			--	--	--	--	--
2,3-Dichloroaniline	mg/kg			--	--	--	--	--
2,4,5-Trichlorophenol	mg/kg	1.1	SL-6	< 0.0997 U	< 0.0996 U	< 0.1 U	< 0.0997 U	< 0.0999 U
2,4,6-Trichlorophenol	mg/kg	0.00019	SL-6	< 0.0997 U	< 0.0996 U	< 0.1 U	< 0.0997 U	< 0.0999 U
2,4-Dichlorophenol	mg/kg	0.0043	SL-6	< 0.0997 U	< 0.0996 U	< 0.1 U	< 0.0997 U	< 0.0999 U
2,4-Dimethylphenol	mg/kg	0.0023	SL-7	< 0.0997 U	< 0.0996 U	< 0.1 U	< 0.0997 U	< 0.0999 U
2,4-Dinitrophenol	mg/kg	0.029	SL-6	< 0.199 UJ	< 0.199 UJ	< 0.2 UJ	< 0.199 UJ	< 0.2 UJ
2,4-Dinitrotoluene	mg/kg	0.00016	SL-6	< 0.0997 U	< 0.0996 U	< 0.1 U	< 0.0997 U	< 0.0999 U
2,6-Dinitrotoluene	mg/kg	0.67	SL-1	< 0.0997 U	< 0.0996 U	< 0.1 U	< 0.0997 U	< 0.0999 U
2-Chloronaphthalene	mg/kg	0.28	SL-6	< 0.0199 U	< 0.0199 U	< 0.02 U	< 0.0199 U	< 0.02 U
2-Chlorophenol	mg/kg	0.011	SL-6	< 0.0199 U	< 0.0199 U	< 0.02 U	< 0.0199 U	< 0.02 U
2-Methylphenol	mg/kg	0.0058	SL-7	< 0.0199 U	< 0.0199 U	< 0.02 U	< 0.0199 U	< 0.02 U
2-Nitroaniline	mg/kg	800	SL-1	< 0.0997 U	< 0.0996 U	< 0.1 U	< 0.0997 U	< 0.0999 U
2-Nitrophenol	mg/kg			< 0.0199 U	< 0.0199 U	< 0.02 U	< 0.0199 U	< 0.02 U
3 & 4 Methylphenol	mg/kg			--	--	--	--	--
3,3'-Dichlorobenzidine	mg/kg	1.1E-05	SL-6	< 0.997 U	< 0.0996 U	< 0.1 U	< 0.0997 U	< 0.0999 U
3-Nitroaniline	mg/kg			< 0.0997 U	< 0.0996 U	< 0.1 U	< 0.0997 U	< 0.0999 U
4,6-Dinitro-2-methylphenol	mg/kg	0.0073	SL-6	< 0.199 UJ	< 0.199 UJ	< 0.2 U	< 0.199 U	< 0.2 U
4-Bromophenyl phenyl ether	mg/kg			< 0.0199 U	< 0.0199 U	< 0.02 U	< 0.0199 U	< 0.02 U
4-Chloro-3-methylphenol	mg/kg	0.028	SL-6	< 0.0997 U	< 0.0996 U	< 0.1 U	< 0.0997 U	< 0.0999 U
4-Chloroaniline	mg/kg	5	SL-1	< 0.0997 U	< 0.0996 U	< 0.1 U	< 0.0997 U	< 0.0999 U
4-Chlorophenyl phenyl ether	mg/kg			< 0.0199 U	< 0.0199 U	< 0.02 U	< 0.0199 U	< 0.02 U
4-Methylphenol	mg/kg	0.062	SL-7	< 0.0199 U	< 0.0199 U	< 0.02 UJ	< 0.0199 U	< 0.02 UJ
4-Nitroaniline	mg/kg	22	SL-9	< 0.0997 U	< 0.0996 U	< 0.1 U	< 0.0997 U	< 0.0999 U
4-Nitrophenol	mg/kg			< 0.0997 U	< 0.0996 U	< 0.1 U	< 0.0997 U	< 0.0999 U
Aniline	mg/kg	180	SL-1	--	--	--	--	--
Benzidine	mg/kg	3.4E-08	SL-6	--	--	--	--	--
Benzoic acid	mg/kg	0.17	SL-7	< 0.199 UJ	< 0.199 UJ	< 0.2 UJ	< 0.199 U	< 0.2 UJ
Benzyl alcohol	mg/kg	0.017	SL-7	< 0.0199 U	< 0.0199 U	< 0.02 U	< 0.0199 U	< 0.02 U
Benzyl butyl phthalate	mg/kg	0.00018	SL-6	< 0.0199 U	< 0.0199 U	< 0.02 U	< 0.0199 U	< 0.02 U
Bis(2-chloro-1-methylethyl) ether	mg/kg	0.038	SL-6	< 0.0199 U	< 0.0199 U	< 0.02 U	< 0.0199 U	< 0.02 U
Bis(2-chloroethoxy)methane	mg/kg	240	SL-1	< 0.0199 U	< 0.0199 U	< 0.02 U	< 0.0199 U	< 0.02 U
Bis(2-chloroethyl) ether	mg/kg	2.2E-05	SL-6	< 0.0199 U	< 0.0199 U	< 0.02 U	< 0.0199 U	< 0.02 U
bis(2-Chloroisopropyl)ether	mg/kg			--	--	--	--	--
Bis(2-ethylhexyl) adipate	mg/kg	830	SL-1	--	--	--	--	--
Bis(2-ethylhexyl) phthalate	mg/kg	0.0051	SL-6	**1.56**	**0.939 J**	**0.113**	**0.0438 J**	< 0.05 U
Carbazole	mg/kg	79	SL-9	< 0.0199 U	< 0.0199 U	< 0.02 U	< 0.0199 U	< 0.02 U
Dibenzofuran	mg/kg	0.029	SL-7	**0.211**	**0.0556**	**0.0113**	**0.00187 J**	< 0.00499 U
Diethyl phthalate	mg/kg	0.034	SL-7	< 0.0199 U	< 0.0199 U	< 0.02 U	< 0.0199 U	< 0.02 U
Dimethyl phthalate	mg/kg	0.019	SL-7	< 0.0199 U	< 0.0199 U	< 0.02 U	< 0.0199 U	< 0.02 U
Di-n-butyl phthalate	mg/kg	0.011	SL-9	< 0.0199 U	< 0.0199 U	**0.0092 J**	< 0.0199 U	< 0.02 U
Di-n-octyl phthalate	mg/kg	0.33	SL-7	< 0.199 U	< 0.0199 U	< 0.02 U	< 0.0199 U	< 0.02 U
Hexachlorobenzene	mg/kg	4E-07	SL-6	**0.0469**	< 0.005 U	< 0.00499 U	< 0.00249 U	< 0.0005 U
Hexachlorobutadiene	mg/kg	1.1E-05	SL-6	**0.00612 J**	< 0.00504 U	< 0.00638 U	< 0.00249 U	< 0.0005 U
Hexachlorocyclopentadiene	mg/kg	0.0017	SL-6	< 0.0997 UJ	< 0.0996 UJ	< 0.1 UJ	< 0.0997 UJ	< 0.0999 UJ
Hexachloroethane	mg/kg	9.7E-06	SL-6	< 0.0199 U	< 0.0199 U	< 0.02 U	< 0.0199 U	< 0.02 U
Isophorone	mg/kg	0.039	SL-6	< 0.0199 U	< 0.0199 U	< 0.02 U	< 0.0199 U	< 0.02 U
Nitrobenzene	mg/kg	0.041	SL-6	< 0.0199 U	< 0.0199 U	< 0.02 U	< 0.0199 U	< 0.02 U
N-Nitrosodimethylamine	mg/kg	0.00011	SL-6	--	--	--	--	--
N-Nitroso-di-n-propylamine	mg/kg	3.3E-05	SL-6	< 0.0199 U	< 0.0199 U	< 0.02 U	< 0.0199 U	< 0.02 U
N-Nitrosodiphenylamine	mg/kg	0.0016	SL-7	**0.0995 J**	< 0.0199 U	< 0.02 U	< 0.0199 U	< 0.02 U
Pentachlorophenol	mg/kg	1.8E-06	SL-6	< 0.0997 UJ	< 0.0996 UJ	< 0.1 UJ	< 0.0997 U	< 0.0999 UJ
Phenol	mg/kg	0.048	SL-7	< 0.0199 U	< 0.0199 U	< 0.02 U	< 0.0199 U	< 0.02 U
Pyridine	mg/kg	80	SL-1	--	--	--	--	--

Table I.3.C. Saturated Soil Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL

			Location	**MW-05**				
			Date	03/05/21	03/05/21	03/05/21	03/05/21	03/05/21
			Sample	MW-5-6-7	MW-5-8-9.5	MW-5-15-16	MW-5-20-22.5	MW-5-26.5-28
			Depth	6 - 7 ft	8 - 9.5 ft	15 - 16 ft	20 - 22.5 ft	26.5 - 28 ft
			Geologic Unit	Fill	Fill	Alluvial	Alluvial	Till
Analyte	Unit	Preliminary RI SL	Basis of SL					
Pesticides								
2,4'-DDD	mg/kg			< 0.02 U	< 0.44 U	< 0.00998 U	< 0.00498 U	< 0.001 U
2,4'-DDE	mg/kg			< 11.1 U	< 2.22 U	< 0.00998 U	< 0.00498 U	< 0.001 U
2,4'-DDT	mg/kg			< 19.9 U	< 2.22 U	< 0.00998 U	< 0.00498 U	< 0.001 U
4,4'-DDD	mg/kg	3.6E-07	SL-6	< 0.02 U	< 0.01 U	< 0.00998 U	< 0.00498 U	< 0.001 U
4,4'-DDE	mg/kg	7.6E-08	SL-6	< 22.2 U	< 2 U	< 0.549 U	< 0.00498 U	< 0.001 U
4,4'-DDT	mg/kg	8.1E-07	SL-6	< 44.3 U	< 2.22 U	< 0.00998 U	< 0.00498 U	< 0.001 U
Aldrin	mg/kg	2E-09	SL-6	**20.3**	**2.45 J**	**0.525**	**0.0732**	**0.00523**
Alpha-BHC	mg/kg	9.8E-08	SL-6	< 0.00998 U	< 0.005 U	< 0.00499 U	< 0.00249 U	< 0.0005 U
Beta-BHC	mg/kg	3.4E-06	SL-6	< 0.00998 U	< 0.16 U	< 0.00499 U	< 0.00249 U	< 0.0005 U
Chlordane	mg/kg	1.1E-06	SL-6	--	--	--	--	--
cis-Chlordane	mg/kg	5.3E-06	SL-7	< 6.64 U	< 0.005 U	< 0.00499 U	< 0.00249 U	< 0.0005 U
cis-Nonachlor	mg/kg			< 8.86 U	< 0.77 U	< 0.00998 U	< 0.0349 U	< 0.001 U
Delta-BHC	mg/kg	0.0048	SL-1	< 0.00998 U	< 0.005 U	< 0.00499 U	< 0.00249 U	< 0.0005 U
Dieldrin	mg/kg	1.8E-09	SL-6	**3.1**	< 2 U	< 0.00998 U	**0.0121**	< 0.001 U
Endosulfan I	mg/kg	6.1E-05	SL-6	< 0.00998 U	< 0.005 U	< 0.00499 U	< 0.00249 U	< 0.0005 U
Endosulfan II	mg/kg	6.1E-05	SL-6	< 8.86 U	< 1.11 U	< 0.00998 U	< 0.00498 U	< 0.001 U
Endosulfan Sulfate	mg/kg	0.1	SL-6	< 0.02 U	< 0.01 U	< 0.00998 U	< 0.00498 U	< 0.001 U
Endrin	mg/kg	2.2E-05	SL-6	< 0.02 U	< 0.01 U	< 0.00998 UJ	< 0.00498 UJ	< 0.001 UJ
Endrin Aldehyde	mg/kg	0.00012	SL-6	< 0.02 U	< 0.01 U	< 0.00998 U	< 0.00498 U	< 0.001 U
Endrin ketone	mg/kg			< 0.02 U	< 0.55 U	< 0.00998 U	< 0.00498 U	< 0.001 U
Heptachlor	mg/kg	3.3E-09	SL-6	< 4.43 U	< 0.2 U	< 0.00499 U	< 0.00249 U	< 0.0005 U
Heptachlor Epoxide	mg/kg	2.5E-08	SL-6	< 0.00998 U	< 0.005 U	< 0.439 U	< 0.00249 U	< 0.0005 U
Lindane	mg/kg	0.00021	SL-6	< 0.00998 U	< 0.005 U	< 0.00499 U	< 0.00249 U	< 0.0005 U
Methoxychlor	mg/kg	0.0016	SL-6	< 0.0998 U	< 0.05 U	< 0.0499 U	< 0.0249 U	< 0.00499 U
Mirex	mg/kg	0.00036	SL-6	< 0.02 U	< 0.01 U	< 0.00998 U	< 0.00498 U	< 0.001 U
Oxychlordane	mg/kg			< 0.02 U	< 0.01 U	< 0.00998 U	< 0.00498 U	< 0.001 U
Toxaphene	mg/kg	3.1E-06	SL-6	--	--	--	--	--
trans-Chlordane	mg/kg	5.3E-06	SL-7	< 0.00998 U	< 0.005 U	< 0.00499 U	< 0.00249 U	< 0.0005 U
trans-Nonachlor	mg/kg			< 4.43 U	< 0.01 U	< 0.00998 U	< 0.00498 U	< 0.001 U
Total Petroleum Hydrocarbons (TPH)								
Gasoline Range Organics	mg/kg	30	SL-3	**534**	< 6.27 U	< 7.73 U	< 6.74 U	< 8.69 U
Diesel Range Organics	mg/kg	2000	SL-9	**9550**	**964 J**	**248**	< 60.7 U	< 63 U
Motor Oil Range Organics	mg/kg	2000	SL-9	**26800**	**2490 J**	**777**	**191**	< 126 U
Diesel and Oil Extended Range Organics	mg/kg	2000	SL-9	**36400**	**3450 J**	**1030**	**191**	< 126 U
Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)								
Benzene	mg/kg	0.00056	SL-6	**0.00079 J**	**0.00055 J**	< 0.00128 U	< 0.00126 U	< 0.00147 U
Toluene	mg/kg	0.044	SL-6	**0.00444**	**0.00037 J**	< 0.00128 U	< 0.00126 U	< 0.00147 U
Ethylbenzene	mg/kg	0.01	SL-6	**0.0105**	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U
Total Xylenes	mg/kg	0.055	SL-6	**0.123**	< 0.00202 U	< 0.00255 U	< 0.00252 U	< 0.00294 U
Volatile Organic Compounds (VOCs)								
1,1,1,2-Tetrachloroethane	mg/kg	38	SL-1	< 0.00119 U	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U
1,1,1-Trichloroethane	mg/kg	21	SL-6	< 0.00119 U	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U
1,1,2 - Trichlorotrifluoroethane	mg/kg	2400000	SL-1	< 0.00238 U	< 0.00202 U	< 0.00255 U	< 0.00252 U	< 0.00294 U
1,1,2,2-Tetrachloroethane	mg/kg	0.00011	SL-6	< 0.00119 UJ	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U
1,1,2-Trichloroethane	mg/kg	0.00033	SL-6	< 0.00119 U	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U
1,1-Dichloroethane	mg/kg	180	SL-1	< 0.00119 U	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U
1,1-Dichloroethene	mg/kg	1.4	SL-6	< 0.00119 U	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U
1,1-Dichloropropene	mg/kg			< 0.00119 U	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U
1,2,3-Trichlorobenzene	mg/kg	64	SL-9	< 0.00596 UJ	< 0.00504 U	< 0.00638 U	< 0.00629 U	< 0.00736 U
1,2,3-Trichloropropane	mg/kg	0.0063	SL-1	< 0.00238 UJ	< 0.00202 U	< 0.00255 U	< 0.00252 U	< 0.00294 U
1,2,4-Trichlorobenzene	mg/kg	7.2E-05	SL-6	< 0.00596 UJ	< 0.00504 U	< 0.00638 U	< 0.00629 U	< 0.00736 U
1,2,4-Trimethylbenzene	mg/kg	800	SL-1	**0.00775 J**	< 0.00101 U	**0.00042 J**	< 0.00126 U	< 0.00147 U
1,2-Dibromo-3-chloropropane	mg/kg	0.23	SL-1	< 0.00596 UJ	< 0.00504 U	< 0.00638 U	< 0.00629 U	< 0.00736 U
1,2-Dibromoethane (EDB)	mg/kg	0.5	SL-1	< 0.00119 U	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U
1,2-Dichlorobenzene	mg/kg	0.003	SL-7	**0.0538**	**0.0359**	< 0.00128 U	< 0.00126 U	< 0.00147 U
1,2-Dichloroethane (EDC)	mg/kg	0.024	SL-6	< 0.00119 U	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U
1,2-Dichloropropane	mg/kg	0.001	SL-6	< 0.00119 U	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U
1,3,5-Trimethylbenzene	mg/kg	800	SL-1	**0.0285 J**	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U
1,3-Dichlorobenzene	mg/kg	0.0013	SL-6	**0.00328 J**	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U
1,3-Dichloropropane	mg/kg	0.00043	SL-6	< 0.00119 U	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U
1,4-Dichloro-2-Butene	mg/kg			< 0.00596 U	< 0.00504 U	< 0.00638 U	< 0.00629 U	< 0.00736 U
1,4-Dichlorobenzene	mg/kg	0.0081	SL-7	**0.014 J**	**0.0084 J**	< 0.00128 U	< 0.00126 U	< 0.00147 U
2,2-Dichloropropane	mg/kg			< 0.00119 U	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U
2-Butanone	mg/kg	350	SL-9	< 0.00596 U	**0.00382 J**	< 0.00638 U	< 0.00629 U	< 0.00736 U
2-Chloroethyl Vinyl Ether	mg/kg			< 0.00596 UJ	< 0.00504 U	< 0.00638 U	< 0.00629 U	< 0.00736 U
2-Chlorotoluene	mg/kg	1600	SL-1	< 0.00119 UJ	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U
2-Hexanone	mg/kg	400	SL-1	< 0.00596 U	< 0.00504 U	< 0.00638 U	< 0.00629 U	< 0.00736 U
2-Pentanone	mg/kg			< 0.00596 UJ	< 0.00504 U	< 0.00638 U	< 0.00629 U	< 0.00736 U
4-Chlorotoluene	mg/kg	1600	SL-1	< 0.00119 UJ	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U
4-Methyl-2-pentanone	mg/kg	6400	SL-1	< 0.00596 U	< 0.00504 U	< 0.00638 U	< 0.00629 U	< 0.00736 U
Acetone	mg/kg	1.2	SL-9	**0.204**	**0.07**	**0.07**	**0.0612**	**0.0786**
Acrolein	mg/kg	0.00032	SL-6	< 0.00596 U	< 0.00504 U	< 0.00638 U	< 0.00629 U	< 0.00736 U
Acrylonitrile	mg/kg	8.3E-06	SL-6	< 0.00596 U	< 0.00504 U	< 0.00638 U	< 0.00629 U	< 0.00736 U
Bromobenzene	mg/kg	640	SL-1	< 0.00119 UJ	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U
Bromochloromethane	mg/kg			< 0.00119 U	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U
Bromodichloromethane	mg/kg	0.00089	SL-6	< 0.00119 U	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U
Bromoform	mg/kg	0.005	SL-6	< 0.00119 UJ	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U
Bromomethane	mg/kg	0.079	SL-6	< 0.00119 U	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U
Carbon Disulfide	mg/kg	0.81	SL-9	**0.00414**	**0.0132 J**	**0.00161**	**0.00489**	< 0.00147 U
Carbon Tetrachloride	mg/kg	0.00015	SL-6	< 0.00119 U	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U
Chlorobenzene	mg/kg	0.1	SL-6	< 0.00119 U	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U
Chloroethane	mg/kg			< 0.00238 U	< 0.00202 U	< 0.00255 U	< 0.00252 U	< 0.00294 U
Chloroform	mg/kg	0.052	SL-6	< 0.00119 U	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U
Chloromethane	mg/kg			< 0.00119 U	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U
cis-1,2-Dichloroethene (DCE)	mg/kg	24	SL-9	**0.00081 J**	**0.00037 J**	< 0.00128 U	< 0.00126 U	< 0.00147 U
cis-1,3-Dichloropropene	mg/kg	0.00038	SL-6	< 0.00119 U	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U
Dibromochloromethane	mg/kg	0.00070	SL-6	< 0.00119 U	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U
Dibromomethane	mg/kg	800	SL-1	< 0.00119 U	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U
Dichlorodifluoromethane	mg/kg	16000	SL-1	< 0.00119 U	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U
Isopropylbenzene	mg/kg	8000	SL-1	**0.206 J**	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U
m,p-Xylenes	mg/kg			**0.0571**	< 0.00202 U	< 0.00255 U	< 0.00252 U	< 0.00294 U
Methyl tert-butyl ether (MTBE)	mg/kg	560	SL-1	< 0.00119 U	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U
Methylene Chloride	mg/kg	0.030	SL-6	< 0.00596 U	< 0.00504 U	< 0.00638 U	< 0.00629 U	< 0.00736 U
Methyliodide	mg/kg			< 0.00119 U	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U
n-Butylbenzene	mg/kg	4000	SL-1	**0.333**	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U
n-Hexane	mg/kg	4800	SL-1	--	--	--	--	--
n-Propylbenzene	mg/kg	8000	SL-1	**0.259**	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U
o-Xylene	mg/kg			**0.0656**	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U
p-Isopropyltoluene	mg/kg	320	SL-1	**0.0183**	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U
sec-Butylbenzene	mg/kg	8000	SL-1	**0.195**	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U
Styrene	mg/kg	4.7	SL-9	< 0.00119 U	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U
tert-Butylbenzene	mg/kg	8000	SL-1	< 0.00119 UJ	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U
Tetrachloroethene (PCE)	mg/kg	0.0016	SL-6	< 0.00119 U	**0.00307 J**	< 0.00128 U	< 0.00126 U	< 0.00147 U
trans-1,2-Dichloroethene	mg/kg	0.32	SL-6	< 0.00119 U	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U
trans-1,3-Dichloropropene	mg/kg	0.00038	SL-6	< 0.00119 U	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U
Trichloroethene (TCE)	mg/kg	0.00027	SL-6	**0.0007 J**	**0.00063 J**	< 0.00128 U	< 0.00126 U	< 0.00147 U
Trichlorofluoromethane	mg/kg	24000	SL-1	< 0.00238 U	< 0.00202 U	< 0.00255 U	< 0.00252 U	< 0.00294 U
Vinyl Acetate	mg/kg	80000	SL-1	< 0.00596 U	< 0.00504 U	< 0.00638 U	< 0.00629 U	< 0.00736 U
Vinyl Chloride	mg/kg	5.6E-05	SL-6	< 0.00119 U	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U
Conventionals								
Total Organic Carbon	%			--	**0.21**	**0.1**	< 0.02 U	**0.38**
Total Solids	%			--	**73.3**	**77.5**	**82.3**	**79.3**

Table I.3.C. Saturated Soil Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL

				Location	MW-05D										
				Date	09/21/22	09/21/22	09/21/22	09/21/22	09/21/22	09/21/22	09/21/22	09/21/22	09/21/22	09/21/22	09/21/22
				Sample	MW-05D-6-7	MW-05D-9-10	MW-05D-10-11	MW-05D-13-14	MW-05D-13-14-TIG	MW-05D-15-16	MW-05D-18-19	MW-05D-21.5-22.5	MW-05D-26-27	MW-05D-30-31	MW-05D-39-40
				Depth	6 - 7 ft	9 - 10 ft	10 - 11 ft	13 - 14 ft	13 - 14 ft	15 - 16 ft	18 - 19 ft	21.5 - 22.5 ft	26 - 27 ft	30 - 31 ft	39 - 40 ft
				Geologic Unit	Fill	Fill	Tidal Flat	Tidal Flat	Tidal Flat	Alluvial	Alluvial	Alluvial	Till	Till	Till
Analyte	Unit	Preliminary RI SL	Basis of SL												
Metals, Total															
Arsenic	mg/kg	7.3	SL-10	--	--	**11.2**	**2.5**	--	--	--	--	**3.41**	**2.02**	--
Barium	mg/kg	250	SL-10	--	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/kg	0.77	SL-10	--	--	**0.284**	< 0.2 U	--	--	--	--	**0.471**	**0.304**	--
Chromium	mg/kg	67	SL-9	--	--	**9.94**	**7.91**	--	--	--	--	**19.4**	**18**	--
Copper	mg/kg	36	SL-10	--	--	**14.5**	**9.17**	--	--	--	--	**19.3**	**13.4**	--
Lead	mg/kg	81	SL-6	--	--	**4.37**	**4.24**	--	--	--	--	**3.45**	**2.24**	--
Mercury	mg/kg	0.07	SL-10	--	--	**0.032 J**	**0.065 J**	--	--	--	--	**0.054 J**	**0.03 J**	--
Nickel	mg/kg	48	SL-10	--	--	**8.25**	**4.99**	--	--	--	--	**27.1**	**24.8**	--
Selenium	mg/kg	0.78	SL-10	--	--	--	--	--	--	--	--	--	--	--
Silver	mg/kg	0.61	SL-10	--	--	--	--	--	--	--	--	--	--	--
Zinc	mg/kg	85	SL-10	--	--	**23.3**	**19.7**	--	--	--	--	**36.9**	**26**	--
Butyl Tins															
Dibutyltin Ion	mg/kg			< 0.00572 U	< 0.00571 U	< 0.00575 U	< 0.0173 U	--	< 0.00575 U	--	--	< 0.0057 U	< 0.00538 U	--
Monobutyltin	mg/kg			< 0.00404 U	< 0.00403 U	< 0.00406 U	< 0.0122 U	--	< 0.00406 U	--	--	< 0.00403 U	< 0.0038 U	--
Tetrabutyltin	mg/kg			< 0.00495 U	< 0.00494 U	< 0.00497 U	< 0.015 U	--	< 0.00497 U	--	--	< 0.00493 U	< 0.00465 U	--
Tributyltin Ion	mg/kg	0.00011	SL-7	< 0.00382 U	< 0.00381 U	< 0.00384 U	< 0.0116 U	--	< 0.00384 U	--	--	< 0.00381 U	< 0.00359 U	--
Polychlorinated Biphenyl (PCB) Aroclors															
Total PCB Aroclors (ND = 0)	mg/kg	5.5E-07	SL-6	--	--	**1.52**	**1.52**	--	< 0.004 U	< 0.004 U	< 0.004 U	**0.0058**	< 0.004 U	--
Polychlorinated Biphenyl (PCB) Congeners															
Total PCB Congeners (ND = 0)	mg/kg	5.5E-07	SL-6	--	--	--	--	**1.07 J**	--	--	--	--	--	--
Total PCB TEQ (ND = 0)	mg/kg	3.5E-10	SL-6	--	--	--	--	**2.47E-05**	--	--	--	--	--	--
Dioxins/Furans															
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	5.2E-06	SL-10	--	--	--	--	--	--	--	--	--	--	--
2,3,7,8-TCDD	mg/kg	5.2E-06	SL-10	--	--	--	--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)															
1-Methylnaphthalene	mg/kg	20	SL-1	--	--	**0.088**	**0.061**	--	--	< 0.0005 U	--	**0.00064**	< 0.0005 U	< 0.0005 U
2-Methylnaphthalene	mg/kg	0.039	SL-7	--	--	**0.073**	**0.0063**	--	--	< 0.0005 U	--	**0.00093**	< 0.0005 U	< 0.0005 U
Acenaphthene	mg/kg	0.028	SL-7	--	--	**0.024**	**0.072**	--	--	< 0.0005 U	--	< 0.0005 U	< 0.0005 U	< 0.0005 U
Acenaphthylene	mg/kg	1.3	SL-8	--	--	< 0.005 U	< 0.0005 U	--	--	< 0.0005 U	--	< 0.0005 U	< 0.0005 U	< 0.0005 U
Anthracene	mg/kg	0.051	SL-7	--	--	**0.028**	**0.12**	--	--	< 0.0005 U	--	< 0.0005 U	< 0.0005 U	< 0.0005 U
Benzo(g,h,i)perylene	mg/kg	0.67	SL-8	--	--	**0.0056**	**0.0053 J**	--	--	< 0.0005 U	--	< 0.0005 U	< 0.0005 U	< 0.0005 U
Fluoranthene	mg/kg	0.09	SL-7	--	--	**0.041**	**0.0029**	--	--	< 0.0005 U	--	**0.00085**	< 0.0005 U	< 0.0005 U
Fluorene	mg/kg	0.029	SL-7	--	--	**0.035**	**0.12**	--	--	< 0.0005 U	--	< 0.0005 U	< 0.0005 U	< 0.0005 U
Naphthalene	mg/kg	0.0021	SL-6	--	--	**0.0078**	**0.0072**	--	--	< 0.0005 U	--	< 0.0005 U	< 0.0005 U	< 0.0005 U
Phenanthrene	mg/kg	1.5	SL-8	--	--	**0.05**	**0.0083**	--	--	< 0.0005 U	--	**0.0014**	**0.00056**	< 0.0005 U
Pyrene	mg/kg	0.14	SL-7	--	--	**0.046**	**0.19 J**	--	--	< 0.0005 U	--	**0.0014**	< 0.0005 U	< 0.0005 U
Benz(a)anthracene	mg/kg	0.73	SL-9	--	--	**0.014**	**0.025 J**	--	--	< 0.0005 U	--	< 0.0005 U	< 0.0005 U	< 0.0005 U
Benzo(a)pyrene	mg/kg	1.6E-05	SL-6	--	--	**0.012**	**0.014 J**	--	--	< 0.0005 U	--	< 0.0005 U	< 0.0005 U	< 0.0005 U
Benzo(b)fluoranthene	mg/kg	44	SL-9	--	--	**0.013**	**0.014 J**	--	--	< 0.0005 U	--	< 0.0005 U	< 0.0005 U	< 0.0005 U
Benzo(j)fluoranthene	mg/kg			--	--	--	--	--	--	--	--	--	--	--
Benzo(j,k)fluoranthene	mg/kg			--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	mg/kg	71	SL-9	--	--	< 0.005 U	**0.0054 J**	--	--	< 0.0005 U	--	< 0.0005 U	< 0.0005 U	< 0.0005 U
Chrysene	mg/kg	1.4	SL-8	--	--	**0.021**	**0.036 J**	--	--	< 0.0005 U	--	**0.00059**	< 0.0005 U	< 0.0005 U
Dibenzo(a,h)anthracene	mg/kg	0.23	SL-8	--	--	< 0.005 U	**0.0021 J**	--	--	< 0.0005 U	--	< 0.0005 U	< 0.0005 U	< 0.0005 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.6	SL-8	--	--	**0.007**	**0.0059 J**	--	--	< 0.0005 U	--	< 0.0005 U	< 0.0005 U	< 0.0005 U
Total Benzofluoranthenes	mg/kg	1.1	SL-9	--	--	**0.0155**	**0.0194 J**	--	--	< 0.0005 U	--	< 0.0005 U	< 0.0005 U	< 0.0005 U
Total HPAHs (ND = 1/2 RDL)	mg/kg	1.1	SL-9	--	--	**0.165**	**0.301 J**	--	--	< 0.0005 U	--	**0.00459**	< 0.0005 U	< 0.0005 U
Total LPAHs (ND = 1/2 RDL)	mg/kg	5.2	SL-8	--	--	**0.147**	**0.328**	--	--	< 0.0005 U	--	**0.00265**	**0.00181**	< 0.0005 U
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	1.6E-05	SL-6	--	--	**0.0161**	**0.0196 J**	--	--	< 0.000378 U	--	**0.000381**	< 0.000378 U	< 0.000378 U
Semi-Volatile Organic Compounds (SVOCs)															
1,2-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	mg/kg	3.6E-05	SL-6	--	--	< 0.025 U	< 0.0025 U	--	--	< 0.0025 U	--	< 0.0025 U	--	--
1,3-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--	--	--
1,4-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	mg/kg	2400	SL-1	--	--	--	--	--	--	--	--	--	--	--
2,3,5,6-Tetrachlorophenol	mg/kg			--	--	--	--	--	--	--	--	--	--	--
2,3-Dichloroaniline	mg/kg			--	--	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	mg/kg	1.1	SL-6	--	--	< 0.25 U	< 0.025 U	--	--	< 0.025 U	--	< 0.025 U	--	--
2,4,6-Trichlorophenol	mg/kg	0.00019	SL-6	--	--	< 0.25 U	< 0.025 U	--	--	< 0.025 U	--	< 0.025 U	--	--
2,4-Dichlorophenol	mg/kg	0.0043	SL-6	--	--	< 0.25 U	< 0.025 U	--	--	< 0.025 U	--	< 0.025 U	--	--
2,4-Dimethylphenol	mg/kg	0.0023	SL-7	--	--	< 0.25 U	< 0.025 U	--	--	< 0.025 UJ	--	< 0.025 U	--	--
2,4-Dinitrophenol	mg/kg	0.029	SL-6	--	--	< 0.75 U	< 0.075 U	--	--	< 0.075 U	--	< 0.075 U	--	--
2,4-Dinitrotoluene	mg/kg	0.00016	SL-6	--	--	< 0.12 U	< 0.012 U	--	--	< 0.012 U	--	< 0.012 U	--	--
2,6-Dinitrotoluene	mg/kg	0.67	SL-1	--	--	< 0.12 U	< 0.012 U	--	--	< 0.012 U	--	< 0.012 U	--	--
2-Chloronaphthalene	mg/kg	0.28	SL-6	--	--	< 0.025 U	< 0.0025 U	--	--	< 0.0025 U	--	< 0.0025 U	--	--
2-Chlorophenol	mg/kg	0.011	SL-6	--	--	< 0.25 U	< 0.025 U	--	--	< 0.025 U	--	< 0.025 U	--	--
2-Methylphenol	mg/kg	0.0058	SL-7	--	--	< 0.25 U	< 0.025 U	--	--	< 0.025 U	--	< 0.025 U	--	--
2-Nitroaniline	mg/kg	800	SL-1	--	--	< 0.12 U	< 0.012 U	--	--	< 0.012 U	--	< 0.012 U	--	--
2-Nitrophenol	mg/kg			--	--	< 0.25 U	< 0.025 U	--	--	< 0.025 U	--	< 0.025 U	--	--
3 & 4 Methylphenol	mg/kg			--	--	< 0.5 U	< 0.05 U	--	--	< 0.05 U	--	< 0.05 U	--	--
3,3'-Dichlorobenzidine	mg/kg	1.1E-05	SL-6	--	--	< 0.25 U	< 0.025 J	--	--	< 0.025 U	--	< 0.025 U	--	--
3-Nitroaniline	mg/kg			--	--	< 2.5 U	< 0.25 U	--	--	< 0.25 U	--	< 0.25 U	--	--
4,6-Dinitro-2-methylphenol	mg/kg	0.0073	SL-6	--	--	< 0.75 U	< 0.075 U	--	--	< 0.075 U	--	< 0.075 U	--	--
4-Bromophenyl phenyl ether	mg/kg			--	--	< 0.025 U	< 0.0025 U	--	--	< 0.0025 U	--	< 0.0025 U	--	--
4-Chloro-3-methylphenol	mg/kg	0.028	SL-6	--	--	< 0.25 U	< 0.025 U	--	--	< 0.025 U	--	< 0.025 U	--	--
4-Chloroaniline	mg/kg	5	SL-1	--	--	< 2.5 UJ	< 0.25 UJ	--	--	< 0.25 U	--	< 0.25 UJ	--	--
4-Chlorophenyl phenyl ether	mg/kg			--	--	< 0.025 U	< 0.0025 U	--	--	< 0.0025 U	--	< 0.0025 U	--	--
4-Methylphenol	mg/kg	0.062	SL-7	--	--	< 0.5 U	< 0.05 U	--	--	< 0.05 U	--	< 0.05 U	--	--
4-Nitroaniline	mg/kg	22	SL-9	--	--	< 2.5 U	< 0.25 U	--	--	< 0.25 U	--	< 0.25 U	--	--
4-Nitrophenol	mg/kg			--	--	< 0.75 U	< 0.075 U	--	--	< 0.075 U	--	< 0.075 U	--	--
Aniline	mg/kg	180	SL-1	--	--	--	--	--	--	--	--	--	--	--
Benzidine	mg/kg	3.4E-08	SL-6	--	--	--	--	--	--	--	--	--	--	--
Benzoic acid	mg/kg	0.17	SL-7	--	--	< 1.2 U	< 0.12 U	--	--	< 0.12 U	--	< 0.12 U	--	--
Benzyl alcohol	mg/kg	0.017	SL-7	--	--	< 0.25 U	< 0.025 U	--	--	< 0.025 U	--	< 0.025 U	--	--
Benzyl butyl phthalate	mg/kg	0.00018	SL-6	--	--	< 0.25 U	**0.093 J**	--	--	< 0.025 U	--	< 0.025 U	--	--
Bis(2-chloro-1-methylethyl) ether	mg/kg	0.038	SL-6	--	--	< 0.025 U	< 0.0025 U	--	--	< 0.0025 U	--	< 0.0025 U	--	--
Bis(2-chloroethoxy)methane	mg/kg	240	SL-1	--	--	< 0.025 U	< 0.0025 U	--	--	< 0.0025 U	--	< 0.0025 U	--	--
Bis(2-chloroethyl) ether	mg/kg	2.2E-05	SL-6	--	--	< 0.025 U	< 0.0025 U	--	--	< 0.0025 U	--	< 0.0025 U	--	--
bis(2-Chloroisopropyl)ether	mg/kg			--	--	--	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) adipate	mg/kg	830	SL-1	--	--	--	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate	mg/kg	0.0051	SL-6	--	--	< 0.4 U	**0.16 J**	--	--	< 0.04 U	--	< 0.04 U	--	--
Carbazole	mg/kg	79	SL-9	--	--	< 0.025 U	**0.0057**	--	--	< 0.0025 UJ	--	< 0.0025 U	--	--
Dibenzofuran	mg/kg	0.029	SL-7	--	--	< 0.025 U	**0.06**	--	--	< 0.0025 U	--	< 0.0025 U	--	--
Diethyl phthalate	mg/kg	0.034	SL-7	--	--	< 0.25 U	< 0.025 U	--	--	< 0.025 U	--	< 0.025 U	--	--
Dimethyl phthalate	mg/kg	0.019	SL-7	--	--	< 0.25 U	< 0.025 U	--	--	< 0.025 U	--	< 0.025 U	--	--
Di-n-butyl phthalate	mg/kg	0.011	SL-9	--	--	< 0.25 U	< 0.025 U	--	--	< 0.025 U	--	< 0.025 U	--	--
Di-n-octyl phthalate	mg/kg	0.33	SL-7	--	--	< 0.25 U	< 0.025 J	--	--	< 0.025 U	--	< 0.025 U	--	--
Hexachlorobenzene	mg/kg	4E-07	SL-6	--	--	< 0.025 U	< 0.0025 U	--	--	< 0.0025 U	--	< 0.0025 U	--	--
Hexachlorobutadiene	mg/kg	1.1E-05	SL-6	--	--	< 0.025 U	< 0.0025 U	--	--	< 0.0025 U	--	< 0.0025 U	--	--
Hexachlorocyclopentadiene	mg/kg	0.0017	SL-6	--	--	< 0.075 U	< 0.0075 U	--	--	< 0.0075 U	--	< 0.0075 U	--	--
Hexachloroethane	mg/kg	9.7E-06	SL-6	--	--	< 0.025 U	< 0.0025 U	--	--	< 0.0025 U	--	< 0.0025 U	--	--
Isophorone	mg/kg	0.039	SL-6	--	--	< 0.025 U	< 0.0025 U	--	--	< 0.0025 U	--	< 0.0025 U	--	--
Nitrobenzene	mg/kg	0.041	SL-6	--	--	< 0.025 U	< 0.0025 U	--	--	< 0.0025 U	--	< 0.0025 U	--	--
N-Nitrosodimethylamine	mg/kg	0.00011	SL-6	--	--	< 0.025 U	< 0.0025 U	--	--	< 0.0025 U	--	< 0.0025 U	--	--
N-Nitroso-di-n-propylamine	mg/kg	3.3E-05	SL-6	--	--	< 0.025 U	< 0.0025 U	--	--	< 0.0025 U	--	< 0.0025 U	--	--
N-Nitrosodiphenylamine	mg/kg	0.0016	SL-7	--	--	< 0.025 U	< 0.0025 U	--	--	< 0.0025 UJ	--	< 0.0025 U	--	--
Pentachlorophenol	mg/kg	1.8E-06	SL-6	--	--	< 0.12 U	< 0.012 U	--	--	< 0.012 U	--	< 0.012 U	--	--
Phenol	mg/kg	0.048	SL-7	--	--	< 0.25 U	< 0.025 U	--	--	< 0.025 U	--	< 0.025 U	--	--
Pyridine	mg/kg	80	SL-1	--	--	--	--	--	--	--	--	--	--	--

Table I.3.C. Saturated Soil Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL

				Location	MW-05D										
				Date	09/21/22	09/21/22	09/21/22	09/21/22	09/21/22	09/21/22	09/21/22	09/21/22	09/21/22	09/21/22	09/21/22
				Sample	MW-05D-6-7	MW-05D-9-10	MW-05D-10-11	MW-05D-13-14	MW-05D-13-14-TIG	MW-05D-15-16	MW-05D-18-19	MW-05D-21.5-22.5	MW-05D-26-27	MW-05D-30-31	MW-05D-39-40
				Depth	6 - 7 ft	9 - 10 ft	10 - 11 ft	13 - 14 ft	13 - 14 ft	15 - 16 ft	18 - 19 ft	21.5 - 22.5 ft	26 - 27 ft	30 - 31 ft	39 - 40 ft
				Geologic Unit	Fill	Fill	Tidal Flat	Tidal Flat	Tidal Flat	Alluvial	Alluvial	Alluvial	Till	Till	Till
Analyte	Unit	Preliminary RI SL	Basis of SL												
Pesticides															
2,4'-DDD	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
2,4'-DDE	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
2,4'-DDT	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
4,4'-DDD	mg/kg	3.6E-07	SL-6	--	--	< 0.05 U	< 0.05 U	--	--	--	< 0.001 U	< 0.001 U	< 0.001 U	--	
4,4'-DDE	mg/kg	7.6E-08	SL-6	--	--	< 0.05 U	< 0.05 U	--	--	--	< 0.001 U	< 0.001 U	< 0.001 U	--	
4,4'-DDT	mg/kg	8.1E-07	SL-6	--	--	< 0.05 U	< 0.05 U	--	--	--	< 0.001 U	< 0.001 U	< 0.001 U	--	
Aldrin	mg/kg	2E-09	SL-6	--	--	< 0.085 U	**0.84**	--	--	--	< 0.0017 U	< 0.0017 U	< 0.0017 U	--	
Alpha-BHC	mg/kg	9.8E-08	SL-6	--	--	< 0.025 U	< 0.025 U	--	--	--	< 0.0005 U	< 0.0005 U	< 0.0005 U	--	
Beta-BHC	mg/kg	3.4E-06	SL-6	--	--	< 0.025 U	< 0.025 U	--	--	--	< 0.0005 U	< 0.0005 U	< 0.0005 U	--	
Chlordane	mg/kg	1.1E-06	SL-6	--	--	--	--	--	--	--	--	--	--	--	
cis-Chlordane	mg/kg	5.3E-06	SL-7	--	--	< 0.025 U	< 0.025 U	--	--	--	< 0.0005 U	< 0.0005 U	< 0.0005 U	--	
cis-Nonachlor	mg/kg			--	--	--	--	--	--	--	--	--	--	--	
Delta-BHC	mg/kg	0.0048	SL-1	--	--	< 0.025 U	< 0.025 U	--	--	--	< 0.0005 U	< 0.0005 U	< 0.0005 U	--	
Dieldrin	mg/kg	1.8E-09	SL-6	--	--	< 0.05 U	< 0.05 U	--	--	--	< 0.001 U	< 0.001 U	< 0.001 U	--	
Endosulfan I	mg/kg	6.1E-05	SL-6	--	--	< 0.025 U	< 0.025 U	--	--	--	< 0.0005 U	< 0.0005 U	< 0.0005 U	--	
Endosulfan II	mg/kg	6.1E-05	SL-6	--	--	< 0.05 U	< 0.05 U	--	--	--	< 0.001 U	< 0.001 U	< 0.001 U	--	
Endosulfan Sulfate	mg/kg	0.1	SL-6	--	--	< 0.05 U	< 0.05 U	--	--	--	< 0.001 U	< 0.001 U	< 0.001 U	--	
Endrin	mg/kg	2.2E-05	SL-6	--	--	< 0.05 U	< 0.05 U	--	--	--	< 0.001 U	< 0.001 U	< 0.001 U	--	
Endrin Aldehyde	mg/kg	0.00012	SL-6	--	--	< 0.05 U	< 0.05 U	--	--	--	< 0.001 U	< 0.001 U	< 0.001 U	--	
Endrin ketone	mg/kg			--	--	< 0.05 U	< 0.05 U	--	--	--	< 0.001 U	< 0.001 U	< 0.001 U	--	
Heptachlor	mg/kg	3.3E-09	SL-6	--	--	< 0.025 U	< 0.025 U	--	--	--	< 0.0005 U	< 0.0005 U	< 0.0005 U	--	
Heptachlor Epoxide	mg/kg	2.5E-08	SL-6	--	--	< 0.025 U	< 0.025 U	--	--	--	< 0.0005 U	< 0.0005 U	< 0.0005 U	--	
Lindane	mg/kg	0.00021	SL-6	--	--	< 0.025 U	< 0.025 U	--	--	--	< 0.0005 U	< 0.0005 U	< 0.0005 U	--	
Methoxychlor	mg/kg	0.0016	SL-6	--	--	< 0.25 U	< 0.25 U	--	--	--	< 0.005 U	< 0.005 U	< 0.005 U	--	
Mirex	mg/kg	0.00036	SL-6	--	--	--	--	--	--	--	--	--	--	--	
Oxychlordane	mg/kg			--	--	--	--	--	--	--	--	--	--	--	
Toxaphene	mg/kg	3.1E-06	SL-6	--	--	< 1.2 U	< 1.2 U	--	--	--	< 0.025 U	< 0.025 U	< 0.025 U	--	
trans-Chlordane	mg/kg	5.3E-06	SL-7	--	--	< 0.085 U	< 0.085 U	--	--	--	< 0.0017 U	< 0.0017 U	< 0.0017 U	--	
trans-Nonachlor	mg/kg			--	--	--	--	--	--	--	--	--	--	--	
Total Petroleum Hydrocarbons (TPH)															
Gasoline Range Organics	mg/kg	30	SL-3	--	--	**77**	< 5 U	--	--	--	--	--	--	--	
Diesel Range Organics	mg/kg	2000	SL-9	--	--	**120 J**	**590 J**	--	--	< 10 U	--	--	--	--	
Motor Oil Range Organics	mg/kg	2000	SL-9	--	--	**460**	**1500**	--	--	< 50 U	--	--	--	--	
Diesel and Oil Extended Range Organics	mg/kg	2000	SL-9	--	--	**580 J**	**2090 J**	--	--	< 50 U	--	--	--	--	
Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)															
Benzene	mg/kg	0.00056	SL-6	--	--	**0.0076**	< 0.001 U	--	--	--	--	--	--	--	
Toluene	mg/kg	0.044	SL-6	--	--	**0.0093**	< 0.001 U	--	--	--	--	--	--	--	
Ethylbenzene	mg/kg	0.01	SL-6	--	--	**0.035**	**0.0016**	--	--	--	--	--	--	--	
Total Xylenes	mg/kg	0.055	SL-6	--	--	**0.111**	**0.0017**	--	--	--	--	--	--	--	
Volatile Organic Compounds (VOCs)															
1,1,1,2-Tetrachloroethane	mg/kg	38	SL-1	--	--	< 0.05 U	< 0.05 U	--	--	--	--	--	--	--	
1,1,1-Trichloroethane	mg/kg	21	SL-6	--	--	< 0.002 U	< 0.002 U	--	--	--	--	--	--	--	
1,1,2 - Trichlorotrifluoroethane	mg/kg	2400000	SL-1	--	--	--	--	--	--	--	--	--	--	--	
1,1,2,2-Tetrachloroethane	mg/kg	0.00011	SL-6	--	--	< 0.05 U	< 0.05 U	--	--	--	--	--	--	--	
1,1,2-Trichloroethane	mg/kg	0.00033	SL-6	--	--	< 0.005 U	< 0.005 U	--	--	--	--	--	--	--	
1,1-Dichloroethane	mg/kg	180	SL-1	--	--	< 0.002 U	< 0.002 U	--	--	--	--	--	--	--	
1,1-Dichloroethene	mg/kg	1.4	SL-6	--	--	< 0.001 U	< 0.001 U	--	--	--	--	--	--	--	
1,1-Dichloropropene	mg/kg			--	--	< 0.05 U	< 0.05 U	--	--	--	--	--	--	--	
1,2,3-Trichlorobenzene	mg/kg	64	SL-9	--	--	< 0.25 U	< 0.25 U	--	--	--	--	--	--	--	
1,2,3-Trichloropropane	mg/kg	0.0063	SL-1	--	--	< 0.05 U	< 0.05 U	--	--	--	--	--	--	--	
1,2,4-Trichlorobenzene	mg/kg	7.2E-05	SL-6	--	--	< 0.025 U	**0.0065**	--	--	< 0.0025 U	--	< 0.0025 U	--	--	
1,2,4-Trimethylbenzene	mg/kg	800	SL-1	--	--	< 0.05 U	< 0.05 U	--	--	--	--	--	--	--	
1,2-Dibromo-3-chloropropane	mg/kg	0.23	SL-1	--	--	< 0.5 U	< 0.5 U	--	--	--	--	--	--	--	
1,2-Dibromoethane (EDB)	mg/kg	0.5	SL-1	--	--	< 0.005 U	< 0.005 U	--	--	--	--	--	--	--	
1,2-Dichlorobenzene	mg/kg	0.003	SL-7	--	--	< 0.025 U	**0.0049**	--	--	< 0.0025 U	--	< 0.0025 U	--	--	
1,2-Dichloroethane (EDC)	mg/kg	0.024	SL-6	--	--	< 0.002 U	< 0.002 U	--	--	--	--	--	--	--	
1,2-Dichloropropane	mg/kg	0.001	SL-6	--	--	< 0.05 U	< 0.05 U	--	--	--	--	--	--	--	
1,3,5-Trimethylbenzene	mg/kg	800	SL-1	--	--	< 0.05 U	< 0.05 U	--	--	--	--	--	--	--	
1,3-Dichlorobenzene	mg/kg	0.0013	SL-6	--	--	< 0.025 U	< 0.0025 U	--	--	< 0.0025 U	--	< 0.0025 U	--	--	
1,3-Dichloropropane	mg/kg	0.00043	SL-6	--	--	< 0.05 U	< 0.05 U	--	--	--	--	--	--	--	
1,4-Dichloro-2-Butene	mg/kg			--	--	--	--	--	--	--	--	--	--	--	
1,4-Dichlorobenzene	mg/kg	0.0081	SL-7	--	--	< 0.025 U	< 0.0025 U	--	--	< 0.0025 U	--	< 0.0025 U	--	--	
2,2-Dichloropropane	mg/kg			--	--	< 0.05 U	< 0.05 U	--	--	--	--	--	--	--	
2-Butanone	mg/kg	350	SL-9	--	--	< 1 U	< 1 U	--	--	--	--	--	--	--	
2-Chloroethyl Vinyl Ether	mg/kg			--	--	--	--	--	--	--	--	--	--	--	
2-Chlorotoluene	mg/kg	1600	SL-1	--	--	< 0.05 U	< 0.05 U	--	--	--	--	--	--	--	
2-Hexanone	mg/kg	400	SL-1	--	--	< 0.5 U	< 0.5 U	--	--	--	--	--	--	--	
2-Pentanone	mg/kg			--	--	--	--	--	--	--	--	--	--	--	
4-Chlorotoluene	mg/kg	1600	SL-1	--	--	< 0.05 U	< 0.05 U	--	--	--	--	--	--	--	
4-Methyl-2-pentanone	mg/kg	6400	SL-1	--	--	< 1 U	< 1 U	--	--	--	--	--	--	--	
Acetone	mg/kg	1.2	SL-9	--	--	< 1.2 UJ	< 1.2 UJ	--	--	--	--	--	--	--	
Acrolein	mg/kg	0.00032	SL-6	--	--	--	--	--	--	--	--	--	--	--	
Acrylonitrile	mg/kg	8.3E-06	SL-6	--	--	--	--	--	--	--	--	--	--	--	
Bromobenzene	mg/kg	640	SL-1	--	--	< 0.05 U	< 0.05 U	--	--	--	--	--	--	--	
Bromochloromethane	mg/kg			--	--	--	--	--	--	--	--	--	--	--	
Bromodichloromethane	mg/kg	0.00089	SL-6	--	--	< 0.005 U	< 0.005 U	--	--	--	--	--	--	--	
Bromoform	mg/kg	0.005	SL-6	--	--	< 0.05 U	< 0.05 U	--	--	--	--	--	--	--	
Bromomethane	mg/kg	0.079	SL-6	--	--	< 0.1 U	< 0.1 U	--	--	--	--	--	--	--	
Carbon Disulfide	mg/kg	0.81	SL-9	--	--	--	--	--	--	--	--	--	--	--	
Carbon Tetrachloride	mg/kg	0.00015	SL-6	--	--	< 0.005 U	< 0.005 U	--	--	--	--	--	--	--	
Chlorobenzene	mg/kg	0.1	SL-6	--	--	**0.11**	< 0.05 U	--	--	--	--	--	--	--	
Chloroethane	mg/kg			--	--	< 0.1 U	< 0.1 U	--	--	--	--	--	--	--	
Chloroform	mg/kg	0.052	SL-6	--	--	< 0.05 U	< 0.05 U	--	--	--	--	--	--	--	
Chloromethane	mg/kg			--	--	< 0.5 U	< 0.5 U	--	--	--	--	--	--	--	
cis-1,2-Dichloroethene (DCE)	mg/kg	24	SL-9	--	--	**0.0016**	< 0.001 U	--	--	--	--	--	--	--	
cis-1,3-Dichloropropene	mg/kg	0.00038	SL-6	--	--	< 0.01 U	< 0.01 U	--	--	--	--	--	--	--	
Dibromochloromethane	mg/kg	0.00070	SL-6	--	--	< 0.01 U	< 0.01 U	--	--	--	--	--	--	--	
Dibromomethane	mg/kg	800	SL-1	--	--	< 0.05 U	< 0.05 U	--	--	--	--	--	--	--	
Dichlorodifluoromethane	mg/kg	16000	SL-1	--	--	< 0.5 U	< 0.5 U	--	--	--	--	--	--	--	
Isopropylbenzene	mg/kg	8000	SL-1	--	--	**0.27**	< 0.05 U	--	--	--	--	--	--	--	
m,p-Xylenes	mg/kg			--	--	**0.023**	< 0.002 U	--	--	--	--	--	--	--	
Methyl tert-butyl ether (MTBE)	mg/kg	560	SL-1	--	--	< 0.001 U	< 0.001 U	--	--	--	--	--	--	--	
Methylene Chloride	mg/kg	0.030	SL-6	--	--	< 0.2 U	< 0.2 U	--	--	--	--	--	--	--	
Methyliodide	mg/kg			--	--	--	--	--	--	--	--	--	--	--	
n-Butylbenzene	mg/kg	4000	SL-1	--	--	--	--	--	--	--	--	--	--	--	
n-Hexane	mg/kg	4800	SL-1	--	--	< 0.25 U	< 0.25 U	--	--	--	--	--	--	--	
n-Propylbenzene	mg/kg	8000	SL-1	--	--	**0.53**	< 0.05 U	--	--	--	--	--	--	--	
o-Xylene	mg/kg			--	--	**0.088**	**0.0017**	--	--	--	--	--	--	--	
p-Isopropyltoluene	mg/kg	320	SL-1	--	--	**0.088**	< 0.05 U	--	--	--	--	--	--	--	
sec-Butylbenzene	mg/kg	8000	SL-1	--	--	**0.27**	< 0.05 U	--	--	--	--	--	--	--	
Styrene	mg/kg	4.7	SL-9	--	--	< 0.05 U	< 0.05 U	--	--	--	--	--	--	--	
tert-Butylbenzene	mg/kg	8000	SL-1	--	--	< 0.05 U	< 0.05 U	--	--	--	--	--	--	--	
Tetrachloroethene (PCE)	mg/kg	0.0016	SL-6	--	--	< 0.001 U	< 0.001 U	--	--	--	--	--	--	--	
trans-1,2-Dichloroethene	mg/kg	0.32	SL-6	--	--	< 0.002 U	< 0.002 U	--	--	--	--	--	--	--	
trans-1,3-Dichloropropene	mg/kg	0.00038	SL-6	--	--	< 0.01 U	< 0.01 U	--	--	--	--	--	--	--	
Trichloroethene (TCE)	mg/kg	0.00027	SL-6	--	--	< 0.001 U	< 0.001 U	--	--	--	--	--	--	--	
Trichlorofluoromethane	mg/kg	24000	SL-1	--	--	< 0.5 U	< 0.5 U	--	--	--	--	--	--	--	
Vinyl Acetate	mg/kg	80000	SL-1	--	--	--	--	--	--	--	--	--	--	--	
Vinyl Chloride	mg/kg	5.6E-05	SL-6	--	--	< 0.001 U	< 0.001 U	--	--	--	--	--	--	--	
Conventionals															
Total Organic Carbon	%			--	--	--	--	--	--	--	--	--	--	--	
Total Solids	%			--	--	--	--	**65.5**	--	--	--	--	--	--	

Table I.3.C. Saturated Soil Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL

				Location	MW-06		MW-06D						MW-07
				Date	03/05/21	03/05/21	09/21/22	09/21/22	09/21/22	09/21/22	09/21/22	09/21/22	03/09/21
				Sample	MW-6-9	MW-6-18-20	MW-06D-8.5-9.5	MW-06D-12.5-13.5	MW-06D-19-20	MW-06D-19-20-TIG	MW-06D-26-27	MW-06D-29-30	MW-7-17-19
				Depth	9 - 9 ft	18 - 20 ft	8.5 - 9.5 ft	12.5 - 13.5 ft	19 - 20 ft	19 - 20 ft	26 - 27 ft	29 - 30 ft	17 - 19 ft
				Geologic Unit	Tidal Flat	Alluvial	Tidal Flat	Tidal Flat	Alluvial	Alluvial	Till	Till	Alluvial
Analyte	Unit	Preliminary RI SL	Basis of SL										
Metals, Total													
Arsenic	mg/kg	7.3	SL-10	**1.33**	**1.53**	--	--	--	--	**2.66**	--	**1.75**
Barium	mg/kg	250	SL-10	--	--	--	--	--	--	--	--	--
Cadmium	mg/kg	0.77	SL-10	< 0.13 U	< 0.12 U	--	--	--	--	**0.301**	--	< 0.12 U
Chromium	mg/kg	67	SL-9	**10.7**	**8.37**	--	--	--	--	**22.7**	--	**10.8**
Copper	mg/kg	36	SL-10	**8.8**	**11.4**	--	--	--	--	**18.7**	--	**10.7**
Lead	mg/kg	81	SL-6	**1.67**	**1.36**	--	--	--	--	**3.24**	--	**1.6**
Mercury	mg/kg	0.07	SL-10	--	--	--	--	--	--	**0.035 J**	--	--
Nickel	mg/kg	48	SL-10	**6.06**	**6.94**	--	--	--	--	**32.8**	--	**11.3**
Selenium	mg/kg	0.78	SL-10	--	--	--	--	--	--	--	--	--
Silver	mg/kg	0.61	SL-10	--	--	--	--	--	--	--	--	--
Zinc	mg/kg	85	SL-10	**34.5**	**21.7**	--	--	--	--	**33.9**	--	**28.7**
Butyl Tins													
Dibutyltin Ion	mg/kg			--	--	< 0.00577 U	**0.0135**	< 0.00575 U	--	< 0.00563 U	< 0.0057 U	--
Monobutyltin	mg/kg			--	--	< 0.00408 U	**0.00804**	< 0.00406 U	--	< 0.00397 U	< 0.00402 U	--
Tetrabutyltin	mg/kg			--	--	< 0.00499 U	< 0.00497 U	< 0.00497 U	--	< 0.00487 U	< 0.00493 U	--
Tributyltin Ion	mg/kg	0.00011	SL-7	--	--	< 0.00386 U	**0.0433**	< 0.00384 U	--	< 0.00376 U	< 0.00381 U	--
Polychlorinated Biphenyl (PCB) Aroclors													
Total PCB Aroclors (ND = 0)	mg/kg	5.5E-07	SL-6	**0.0551 J**	< 0.004 U	**0.0174**	**0.06**	--	--	< 0.004 U	--	**0.0009 J**
Polychlorinated Biphenyl (PCB) Congeners													
Total PCB Congeners (ND = 0)	mg/kg	5.5E-07	SL-6	--	--	--	--	--	**5.69E-06 J**	--	--	--
Total PCB TEQ (ND = 0)	mg/kg	3.5E-10	SL-6	--	--	--	--	--	< 2.48E-06 U	--	--	--
Dioxins/Furans													
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	5.2E-06	SL-10	--	--	--	--	--	--	--	--	--
2,3,7,8-TCDD	mg/kg	5.2E-06	SL-10	--	--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)													
1-Methylnaphthalene	mg/kg	20	SL-1	**0.00315 J**	**0.00116 J**	--	**0.00082**	--	--	**0.00063**	< 0.0005 U	--
2-Methylnaphthalene	mg/kg	0.039	SL-7	**0.00608**	**0.0018 J**	--	**0.001**	--	--	**0.00084**	< 0.0005 U	--
Acenaphthene	mg/kg	0.028	SL-7	< 0.00499 U	< 0.005 U	--	**0.002**	--	--	< 0.0005 U	< 0.0005 U	--
Acenaphthylene	mg/kg	1.3	SL-8	< 0.00499 U	< 0.005 U	--	< 0.0005 U	--	--	< 0.0005 U	< 0.0005 U	--
Anthracene	mg/kg	0.051	SL-7	**0.00177 J**	< 0.005 U	--	**0.0035**	--	--	< 0.0005 U	< 0.0005 U	--
Benzo(g,h,i)perylene	mg/kg	0.67	SL-8	**0.00317 J**	< 0.005 U	--	**0.0094**	--	--	**0.00059**	< 0.0005 U	--
Fluoranthene	mg/kg	0.09	SL-7	**0.00597**	< 0.005 U	--	**0.023**	--	--	**0.00056**	< 0.0005 U	--
Fluorene	mg/kg	0.029	SL-7	< 0.00499 U	< 0.005 U	--	**0.0015**	--	--	< 0.0005 U	< 0.0005 U	--
Naphthalene	mg/kg	0.0021	SL-6	**0.0031 J**	< 0.005 U	--	**0.00084**	< 0.005 U	--	< 0.005 U	< 0.0005 U	--
Phenanthrene	mg/kg	1.5	SL-8	**0.00836**	**0.0017 J**	--	**0.016**	--	--	**0.0012**	< 0.0005 U	--
Pyrene	mg/kg	0.14	SL-7	**0.00606**	**0.00075 J**	--	**0.025**	--	--	**0.00095**	< 0.0005 U	--
Benz(a)anthracene	mg/kg	0.73	SL-9	**0.00245 J**	< 0.005 U	--	**0.017**	--	--	< 0.0005 U	< 0.0005 U	--
Benzo(a)pyrene	mg/kg	1.6E-05	SL-6	**0.00322 J**	< 0.005 U	--	**0.018**	--	--	< 0.0005 U	< 0.0005 U	--
Benzo(b)fluoranthene	mg/kg	44	SL-9	**0.00342 J**	< 0.005 U	--	**0.021**	--	--	< 0.0005 U	< 0.0005 U	--
Benzo(j)fluoranthene	mg/kg			**0.0021 J**	< 0.005 U	--	--	--	--	--	--	--
Benzo(j,k)fluoranthene	mg/kg			--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	mg/kg	71	SL-9	**0.00164 J**	< 0.005 U	--	**0.0081**	--	--	< 0.0005 U	< 0.0005 U	--
Chrysene	mg/kg	1.4	SL-8	**0.00464 J**	< 0.005 U	--	**0.02**	--	--	**0.00058**	< 0.0005 U	--
Dibenzo(a,h)anthracene	mg/kg	0.23	SL-8	< 0.00499 U	< 0.005 U	--	**0.0021**	--	--	< 0.0005 U	< 0.0005 U	--
Indeno(1,2,3-cd)pyrene	mg/kg	0.6	SL-8	**0.00199 J**	< 0.005 U	--	**0.01**	--	--	< 0.0005 U	< 0.0005 U	--
Total Benzofluoranthenes	mg/kg	1.1	SL-9	**0.0071 J**	< 0.00999 U	--	**0.0291**	--	--	< 0.0005 U	< 0.0005 U	--
Total HPAHs (ND = 1/2 RDL)	mg/kg	1.1	SL-9	**0.0372 J**	**0.0258 J**	--	**0.154**	--	--	**0.00418**	< 0.0005 U	--
Total LPAHs (ND = 1/2 RDL)	mg/kg	5.2	SL-8	**0.0207 J**	**0.0142 J**	--	**0.0241**	--	--	**0.0047**	< 0.0005 U	--
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	1.6E-05	SL-6	**0.00447 J**	< 0.00377 U	--	**0.024**	--	--	**0.000381**	< 0.000378 U	--
Semi-Volatile Organic Compounds (SVOCs)													
1,2-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	mg/kg	3.6E-05	SL-6	--	--	--	< 0.0025 U	--	--	< 0.0025 U	--	--
1,3-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--
1,4-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	mg/kg	2400	SL-1	--	--	--	--	--	--	--	--	--
2,3,5,6-Tetrachlorophenol	mg/kg			--	--	--	--	--	--	--	--	--
2,3-Dichloroaniline	mg/kg			--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	mg/kg	1.1	SL-6	< 0.0998 U	< 0.1 U	--	< 0.025 U	--	--	< 0.025 U	--	--
2,4,6-Trichlorophenol	mg/kg	0.00019	SL-6	< 0.0998 U	< 0.1 U	--	< 0.025 U	--	--	< 0.025 U	--	--
2,4-Dichlorophenol	mg/kg	0.0043	SL-6	< 0.0998 U	< 0.1 U	--	< 0.025 U	--	--	< 0.025 U	--	--
2,4-Dimethylphenol	mg/kg	0.0023	SL-7	< 0.0998 U	< 0.1 U	--	< 0.025 U	--	--	< 0.025 U	--	--
2,4-Dinitrophenol	mg/kg	0.029	SL-6	< 0.2 UJ	< 0.2 UJ	--	< 0.075 U	--	--	< 0.075 UJ	--	--
2,4-Dinitrotoluene	mg/kg	0.00016	SL-6	< 0.0998 U	< 0.1 U	--	< 0.012 U	--	--	< 0.012 U	--	--
2,6-Dinitrotoluene	mg/kg	0.67	SL-1	< 0.0998 U	< 0.1 U	--	< 0.012 U	--	--	< 0.012 U	--	--
2-Chloronaphthalene	mg/kg	0.28	SL-6	< 0.02 U	< 0.02 U	--	< 0.0025 U	--	--	< 0.0025 U	--	--
2-Chlorophenol	mg/kg	0.011	SL-6	< 0.02 U	< 0.02 U	--	< 0.025 U	--	--	< 0.025 U	--	--
2-Methylphenol	mg/kg	0.0058	SL-7	< 0.02 U	< 0.02 U	--	< 0.025 U	--	--	< 0.025 U	--	--
2-Nitroaniline	mg/kg	800	SL-1	< 0.0998 U	< 0.1 U	--	< 0.012 U	--	--	< 0.012 U	--	--
2-Nitrophenol	mg/kg			< 0.02 U	< 0.02 U	--	< 0.025 U	--	--	< 0.025 U	--	--
3 & 4 Methylphenol	mg/kg			--	--	--	< 0.05 U	--	--	< 0.05 U	--	--
3,3'-Dichlorobenzidine	mg/kg	1.1E-05	SL-6	< 0.0998 U	< 0.1 U	--	< 0.025 U	--	--	< 0.025 U	--	--
3-Nitroaniline	mg/kg			< 0.0998 U	< 0.1 U	--	< 0.25 U	--	--	< 0.25 U	--	--
4,6-Dinitro-2-methylphenol	mg/kg	0.0073	SL-6	< 0.2 U	< 0.2 U	--	< 0.075 U	--	--	< 0.075 UJ	--	--
4-Bromophenyl phenyl ether	mg/kg			< 0.02 U	< 0.02 U	--	< 0.0025 U	--	--	< 0.0025 U	--	--
4-Chloro-3-methylphenol	mg/kg	0.028	SL-6	< 0.0998 U	< 0.1 U	--	< 0.025 U	--	--	< 0.025 U	--	--
4-Chloroaniline	mg/kg	5	SL-1	< 0.0998 U	< 0.1 U	--	< 0.25 U	--	--	< 0.25 UJ	--	--
4-Chlorophenyl phenyl ether	mg/kg			< 0.02 U	< 0.02 U	--	< 0.0025 U	--	--	< 0.0025 U	--	--
4-Methylphenol	mg/kg	0.062	SL-7	< 0.02 U	< 0.02 U	--	< 0.05 U	--	--	< 0.05 U	--	--
4-Nitroaniline	mg/kg	22	SL-9	< 0.0998 U	< 0.1 U	--	< 0.25 U	--	--	< 0.25 U	--	--
4-Nitrophenol	mg/kg			< 0.0998 U	< 0.1 U	--	< 0.075 U	--	--	< 0.075 U	--	--
Aniline	mg/kg	180	SL-1	--	--	--	--	--	--	--	--	--
Benzidine	mg/kg	3.4E-08	SL-6	--	--	--	--	--	--	--	--	--
Benzoic acid	mg/kg	0.17	SL-7	< 0.2 U	< 0.2 U	--	< 0.12 U	--	--	< 0.12 UJ	--	--
Benzyl alcohol	mg/kg	0.017	SL-7	< 0.02 U	< 0.02 U	--	< 0.025 U	--	--	< 0.025 U	--	--
Benzyl butyl phthalate	mg/kg	0.00018	SL-6	< 0.02 U	< 0.02 U	--	< 0.025 U	--	--	< 0.025 U	--	--
Bis(2-chloro-1-methylethyl) ether	mg/kg	0.038	SL-6	< 0.02 U	< 0.02 U	--	< 0.0025 U	--	--	< 0.0025 U	--	--
Bis(2-chloroethoxy)methane	mg/kg	240	SL-1	< 0.02 U	< 0.02 U	--	< 0.0025 U	--	--	< 0.0025 U	--	--
Bis(2-chloroethyl) ether	mg/kg	2.2E-05	SL-6	< 0.02 U	< 0.02 U	--	< 0.0025 U	--	--	< 0.0025 U	--	--
bis(2-Chloroisopropyl)ether	mg/kg			--	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) adipate	mg/kg	830	SL-1	--	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate	mg/kg	0.0051	SL-6	< 0.0499 U	< 0.05 U	--	< 0.04 U	--	--	< 0.04 U	--	--
Carbazole	mg/kg	79	SL-9	< 0.02 U	< 0.02 U	--	**0.0029 J**	--	--	< 0.0025 U	--	--
Dibenzofuran	mg/kg	0.029	SL-7	**0.00157 J**	< 0.005 U	--	< 0.0025 U	--	--	< 0.0025 U	--	--
Diethyl phthalate	mg/kg	0.034	SL-7	**0.0496**	< 0.02 U	--	< 0.025 U	--	--	< 0.025 U	--	--
Dimethyl phthalate	mg/kg	0.019	SL-7	< 0.02 U	< 0.02 U	--	< 0.025 U	--	--	< 0.025 U	--	--
Di-n-butyl phthalate	mg/kg	0.011	SL-9	< 0.02 U	< 0.02 U	--	< 0.025 U	--	--	< 0.025 U	--	--
Di-n-octyl phthalate	mg/kg	0.33	SL-7	< 0.02 U	< 0.02 U	--	< 0.025 U	--	--	< 0.025 U	--	--
Hexachlorobenzene	mg/kg	4E-07	SL-6	< 0.0005 U	< 0.0005 U	--	< 0.0025 U	--	--	< 0.0025 U	--	--
Hexachlorobutadiene	mg/kg	1.1E-05	SL-6	< 0.0005 U	< 0.0005 U	--	< 0.0025 U	< 0.01 U	--	< 0.01 U	--	--
Hexachlorocyclopentadiene	mg/kg	0.0017	SL-6	< 0.0998 UJ	< 0.1 UJ	--	< 0.0075 U	--	--	< 0.0075 U	--	--
Hexachloroethane	mg/kg	9.7E-06	SL-6	< 0.02 U	< 0.02 U	--	< 0.0025 U	--	--	< 0.0025 U	--	--
Isophorone	mg/kg	0.039	SL-6	< 0.02 U	< 0.02 U	--	< 0.0025 U	--	--	< 0.0025 U	--	--
Nitrobenzene	mg/kg	0.041	SL-6	< 0.02 U	< 0.02 U	--	< 0.0025 U	--	--	< 0.0025 U	--	--
N-Nitrosodimethylamine	mg/kg	0.00011	SL-6	--	--	--	< 0.0025 U	--	--	< 0.0025 U	--	--
N-Nitroso-di-n-propylamine	mg/kg	3.3E-05	SL-6	< 0.02 U	< 0.02 U	--	< 0.0025 U	--	--	< 0.0025 U	--	--
N-Nitrosodiphenylamine	mg/kg	0.0016	SL-7	< 0.02 U	< 0.02 U	--	< 0.0025 UJ	--	--	< 0.0025 U	--	--
Pentachlorophenol	mg/kg	1.8E-06	SL-6	< 0.0998 UJ	< 0.1 UJ	--	< 0.012 U	--	--	< 0.012 U	--	--
Phenol	mg/kg	0.048	SL-7	< 0.02 U	< 0.02 U	--	< 0.025 U	--	--	< 0.025 U	--	--
Pyridine	mg/kg	80	SL-1	--	--	--	--	--	--	--	--	--

Table I.3.C. Saturated Soil Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL

Location				MW-06		MW-06D						MW-07
Date				03/05/21	03/05/21	09/21/22	09/21/22	09/21/22	09/21/22	09/21/22	09/21/22	03/09/21
Sample				MW-6-9	MW-6-18-20	MW-06D-8.5-9.5	MW-06D-12.5-13.5	MW-06D-19-20	MW-06D-19-20-TIG	MW-06D-26-27	MW-06D-29-30	MW-7-17-19
Depth				9 - 9 ft	18 - 20 ft	8.5 - 9.5 ft	12.5 - 13.5 ft	19 - 20 ft	19 - 20 ft	26 - 27 ft	29 - 30 ft	17 - 19 ft
Geologic Unit				Tidal Flat	Alluvial	Tidal Flat	Tidal Flat	Alluvial	Alluvial	Till	Till	Alluvial
Analyte	Unit	Preliminary RI SL	Basis of SL									
Pesticides												
2,4'-DDD	mg/kg			< 0.001 U	< 0.001 U	--	--	--	--	--	--	--
2,4'-DDE	mg/kg			< 0.001 U	< 0.001 U	--	--	--	--	--	--	--
2,4'-DDT	mg/kg			< 0.001 U	< 0.001 U	--	--	--	--	--	--	--
4,4'-DDD	mg/kg	3.6E-07	SL-6	< 0.001 U	< 0.001 U	--	--	--	--	< 0.001 U	--	--
4,4'-DDE	mg/kg	7.6E-08	SL-6	**0.00354**	< 0.001 U	--	--	--	--	< 0.001 U	--	--
4,4'-DDT	mg/kg	8.1E-07	SL-6	< 0.001 U	< 0.001 U	--	--	--	--	< 0.001 U	--	--
Aldrin	mg/kg	2E-09	SL-6	< 0.002 U	< 0.0005 U	--	--	--	--	< 0.0017 U	--	--
Alpha-BHC	mg/kg	9.8E-08	SL-6	< 0.0005 U	< 0.0005 U	--	--	--	--	< 0.0005 U	--	--
Beta-BHC	mg/kg	3.4E-06	SL-6	< 0.00998 U	< 0.0005 U	--	--	--	--	< 0.0005 U	--	--
Chlordane	mg/kg	1.1E-06	SL-6	--	--	--	--	--	--	--	--	--
cis-Chlordane	mg/kg	5.3E-06	SL-7	< 0.0005 U	< 0.0005 U	--	--	--	--	< 0.0005 U	--	--
cis-Nonachlor	mg/kg			< 0.001 U	< 0.001 U	--	--	--	--	--	--	--
Delta-BHC	mg/kg	0.0048	SL-1	< 0.0005 U	< 0.0005 U	--	--	--	--	< 0.0005 U	--	--
Dieldrin	mg/kg	1.8E-09	SL-6	**0.0175**	**0.00114**	--	--	--	--	< 0.001 U	--	--
Endosulfan I	mg/kg	6.1E-05	SL-6	< 0.0005 U	< 0.0005 U	--	--	--	--	< 0.0005 U	--	--
Endosulfan II	mg/kg	6.1E-05	SL-6	< 0.001 U	< 0.001 U	--	--	--	--	< 0.001 U	--	--
Endosulfan Sulfate	mg/kg	0.1	SL-6	< 0.001 U	< 0.001 U	--	--	--	--	< 0.001 U	--	--
Endrin	mg/kg	2.2E-05	SL-6	< 0.001 UJ	< 0.001 UJ	--	--	--	--	< 0.001 U	--	--
Endrin Aldehyde	mg/kg	0.00012	SL-6	< 0.001 U	< 0.001 U	--	--	--	--	< 0.001 U	--	--
Endrin ketone	mg/kg			< 0.002 U	< 0.001 U	--	--	--	--	< 0.001 U	--	--
Heptachlor	mg/kg	3.3E-09	SL-6	< 0.0005 U	< 0.0005 U	--	--	--	--	< 0.0005 U	--	--
Heptachlor Epoxide	mg/kg	2.5E-08	SL-6	< 0.002 U	< 0.0005 U	--	--	--	--	< 0.0005 U	--	--
Lindane	mg/kg	0.00021	SL-6	< 0.0005 U	< 0.0005 U	--	--	--	--	< 0.0005 U	--	--
Methoxychlor	mg/kg	0.0016	SL-6	< 0.00499 U	< 0.00499 U	--	--	--	--	< 0.005 U	--	--
Mirex	mg/kg	0.00036	SL-6	< 0.001 U	< 0.001 U	--	--	--	--	--	--	--
Oxychlordane	mg/kg			< 0.001 U	< 0.001 U	--	--	--	--	--	--	--
Toxaphene	mg/kg	3.1E-06	SL-6	--	--	--	--	--	--	< 0.025 U	--	--
trans-Chlordane	mg/kg	5.3E-06	SL-7	< 0.0005 U	< 0.0005 U	--	--	--	--	< 0.0017 U	--	--
trans-Nonachlor	mg/kg			< 0.001 U	< 0.001 U	--	--	--	--	--	--	--
Total Petroleum Hydrocarbons (TPH)												
Gasoline Range Organics	mg/kg	30	SL-3	< 7.24 U	< 9.26 U	--	--	--	--	--	--	--
Diesel Range Organics	mg/kg	2000	SL-9	< 65.3 U	< 63.8 U	--	--	--	--	--	--	--
Motor Oil Range Organics	mg/kg	2000	SL-9	< 131 U	< 128 U	--	--	--	--	--	--	--
Diesel and Oil Extended Range Organics	mg/kg	2000	SL-9	< 131 U	< 128 U	--	--	--	--	--	--	--
Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)												
Benzene	mg/kg	0.00056	SL-6	< 0.00131 U	**0.00118**	--	< 0.001 U	< 0.001 U	--	< 0.001 U	--	--
Toluene	mg/kg	0.044	SL-6	< 0.00131 U	< 0.00116 U	--	< 0.001 U	< 0.001 U	--	< 0.001 U	--	--
Ethylbenzene	mg/kg	0.01	SL-6	< 0.00131 U	< 0.00116 U	--	< 0.001 U	< 0.001 U	--	< 0.001 U	--	--
Total Xylenes	mg/kg	0.055	SL-6	< 0.00261 U	< 0.00233 U	--	< 0.002 U	< 0.002 U	--	< 0.002 U	--	--
Volatile Organic Compounds (VOCs)												
1,1,1,2-Tetrachloroethane	mg/kg	38	SL-1	< 0.00131 U	< 0.00116 U	--	< 0.05 U	< 0.05 U	--	< 0.05 U	--	--
1,1,1-Trichloroethane	mg/kg	21	SL-6	< 0.00131 U	< 0.00116 U	--	< 0.002 U	< 0.002 U	--	< 0.002 U	--	--
1,1,2 - Trichlorotrifluoroethane	mg/kg	2400000	SL-1	< 0.00261 U	< 0.00233 U	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	0.00011	SL-6	< 0.00131 U	< 0.00116 U	--	< 0.05 U	< 0.05 U	--	< 0.05 U	--	--
1,1,2-Trichloroethane	mg/kg	0.00033	SL-6	< 0.00131 U	< 0.00116 U	--	< 0.005 U	< 0.005 U	--	< 0.005 U	--	--
1,1-Dichloroethane	mg/kg	180	SL-1	< 0.00131 U	< 0.00116 U	--	< 0.002 U	< 0.002 U	--	< 0.002 U	--	--
1,1-Dichloroethene	mg/kg	1.4	SL-6	< 0.00131 U	< 0.00116 U	--	< 0.001 U	< 0.001 U	--	< 0.001 U	--	--
1,1-Dichloropropene	mg/kg			< 0.00131 U	< 0.00116 U	--	< 0.05 U	< 0.05 U	--	< 0.05 U	--	--
1,2,3-Trichlorobenzene	mg/kg	64	SL-9	< 0.00653 U	< 0.00582 U	--	< 0.25 U	< 0.25 U	--	< 0.25 U	--	--
1,2,3-Trichloropropane	mg/kg	0.0063	SL-1	< 0.00261 U	< 0.00233 U	--	< 0.05 U	< 0.05 U	--	< 0.05 U	--	--
1,2,4-Trichlorobenzene	mg/kg	7.2E-05	SL-6	< 0.00653 U	< 0.00582 U	--	< 0.0025 U	< 0.01 U	--	< 0.01 U	--	--
1,2,4-Trimethylbenzene	mg/kg	800	SL-1	< 0.00131 U	< 0.00116 U	--	< 0.05 U	< 0.05 U	--	< 0.05 U	--	--
1,2-Dibromo-3-chloropropane	mg/kg	0.23	SL-1	< 0.00653 U	< 0.00582 U	--	< 0.5 U	< 0.5 U	--	< 0.5 U	--	--
1,2-Dibromoethane (EDB)	mg/kg	0.5	SL-1	< 0.00131 U	< 0.00116 U	--	< 0.005 U	< 0.005 U	--	< 0.005 U	--	--
1,2-Dichlorobenzene	mg/kg	0.003	SL-7	< 0.00131 U	< 0.00116 U	--	< 0.0025 U	< 0.05 U	--	< 0.05 U	--	--
1,2-Dichloroethane (EDC)	mg/kg	0.024	SL-6	< 0.00131 U	< 0.00116 U	--	< 0.002 U	< 0.002 U	--	< 0.002 U	--	--
1,2-Dichloropropane	mg/kg	0.001	SL-6	< 0.00131 U	< 0.00116 U	--	< 0.05 U	< 0.05 U	--	< 0.05 U	--	--
1,3,5-Trimethylbenzene	mg/kg	800	SL-1	< 0.00131 U	< 0.00116 U	--	< 0.05 U	< 0.05 U	--	< 0.05 U	--	--
1,3-Dichlorobenzene	mg/kg	0.0013	SL-6	< 0.00131 U	< 0.00116 U	--	< 0.0025 U	< 0.05 U	--	< 0.05 U	--	--
1,3-Dichloropropane	mg/kg	0.00043	SL-6	< 0.00131 U	< 0.00116 U	--	< 0.05 U	< 0.05 U	--	< 0.05 U	--	--
1,4-Dichloro-2-Butene	mg/kg			< 0.00653 U	< 0.00582 U	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	0.0081	SL-7	< 0.00131 U	< 0.00116 U	--	< 0.0025 U	< 0.05 U	--	< 0.05 U	--	--
2,2-Dichloropropane	mg/kg			< 0.00131 U	< 0.00116 U	--	< 0.05 U	< 0.05 U	--	< 0.05 U	--	--
2-Butanone	mg/kg	350	SL-9	< 0.00653 U	< 0.00582 U	--	< 1 U	< 1 U	--	< 1 U	--	--
2-Chloroethyl Vinyl Ether	mg/kg			< 0.00653 UJ	< 0.00582 UJ	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	1600	SL-1	< 0.00131 U	< 0.00116 U	--	< 0.05 U	< 0.05 U	--	< 0.05 U	--	--
2-Hexanone	mg/kg	400	SL-1	< 0.00653 U	< 0.00582 U	--	< 0.5 U	< 0.5 U	--	< 0.5 U	--	--
2-Pentanone	mg/kg			< 0.00653 UJ	< 0.00582 UJ	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	1600	SL-1	< 0.00131 U	< 0.00116 U	--	< 0.05 U	< 0.05 U	--	< 0.05 U	--	--
4-Methyl-2-pentanone	mg/kg	6400	SL-1	< 0.00653 U	< 0.00582 U	--	< 1 U	< 1 U	--	< 1 U	--	--
Acetone	mg/kg	1.2	SL-9	**0.0559**	**0.0136**	--	< 5 U	< 5 U	--	< 1.2 UJ	--	--
Acrolein	mg/kg	0.00032	SL-6	< 0.00653 U	< 0.00582 U	--	--	--	--	--	--	--
Acrylonitrile	mg/kg	8.3E-06	SL-6	< 0.00653 U	< 0.00582 U	--	--	--	--	--	--	--
Bromobenzene	mg/kg	640	SL-1	< 0.00131 U	< 0.00116 U	--	< 0.05 U	< 0.05 U	--	< 0.05 U	--	--
Bromochloromethane	mg/kg			< 0.00131 U	< 0.00116 U	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	0.00089	SL-6	< 0.00131 U	< 0.00116 U	--	< 0.005 U	< 0.005 U	--	< 0.005 U	--	--
Bromoform	mg/kg	0.005	SL-6	< 0.00131 U	< 0.00116 U	--	< 0.05 U	< 0.05 U	--	< 0.05 U	--	--
Bromomethane	mg/kg	0.079	SL-6	< 0.00131 U	< 0.00116 U	--	< 0.1 U	< 0.1 U	--	< 0.1 U	--	--
Carbon Disulfide	mg/kg	0.81	SL-9	< 0.00131 U	< 0.00116 U	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	0.00015	SL-6	< 0.00131 U	< 0.00116 U	--	< 0.005 U	< 0.005 U	--	< 0.005 U	--	--
Chlorobenzene	mg/kg	0.1	SL-6	< 0.00131 U	< 0.00116 U	--	< 0.05 U	< 0.05 U	--	< 0.05 U	--	--
Chloroethane	mg/kg			< 0.00261 U	< 0.00233 U	--	< 0.1 U	< 0.1 U	--	< 0.1 U	--	--
Chloroform	mg/kg	0.052	SL-6	< 0.00131 U	< 0.00116 U	--	< 0.05 U	< 0.05 U	--	< 0.05 U	--	--
Chloromethane	mg/kg			< 0.00131 U	< 0.00116 U	--	< 0.5 U	< 0.5 U	--	< 0.5 U	--	--
cis-1,2-Dichloroethene (DCE)	mg/kg	24	SL-9	< 0.00131 UJ	< 0.00116 UJ	--	< 0.001 U	< 0.001 U	--	< 0.001 U	--	--
cis-1,3-Dichloropropene	mg/kg	0.00038	SL-6	< 0.00131 U	< 0.00116 U	--	< 0.01 U	< 0.01 U	--	< 0.01 U	--	--
Dibromochloromethane	mg/kg	0.00070	SL-6	< 0.00131 U	< 0.00116 U	--	< 0.01 U	< 0.01 U	--	< 0.01 U	--	--
Dibromomethane	mg/kg	800	SL-1	< 0.00131 U	< 0.00116 U	--	< 0.05 U	< 0.05 U	--	< 0.05 U	--	--
Dichlorodifluoromethane	mg/kg	16000	SL-1	< 0.00131 U	< 0.00116 U	--	< 0.5 U	< 0.5 U	--	< 0.5 U	--	--
Isopropylbenzene	mg/kg	8000	SL-1	< 0.00131 U	< 0.00116 U	--	< 0.05 U	< 0.05 U	--	< 0.05 U	--	--
m,p-Xylenes	mg/kg			< 0.00261 U	< 0.00233 U	--	< 0.002 U	< 0.002 U	--	< 0.002 U	--	--
Methyl tert-butyl ether (MTBE)	mg/kg	560	SL-1	< 0.00131 U	< 0.00116 U	--	< 0.001 U	< 0.001 U	--	< 0.001 U	--	--
Methylene Chloride	mg/kg	0.030	SL-6	< 0.00653 U	< 0.00582 U	--	< 0.2 U	< 0.2 U	--	< 0.2 U	--	--
Methyliodide	mg/kg			< 0.00131 U	< 0.00116 U	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	4000	SL-1	< 0.00131 U	< 0.00116 U	--	--	--	--	--	--	--
n-Hexane	mg/kg	4800	SL-1	--	--	--	< 0.25 U	< 0.25 U	--	< 0.25 U	--	--
n-Propylbenzene	mg/kg	8000	SL-1	< 0.00131 U	< 0.00116 U	--	< 0.05 U	< 0.05 U	--	< 0.05 U	--	--
o-Xylene	mg/kg			< 0.00131 U	< 0.00116 U	--	< 0.001 U	< 0.001 U	--	< 0.001 U	--	--
p-Isopropyltoluene	mg/kg	320	SL-1	< 0.00131 U	< 0.00116 U	--	< 0.05 U	< 0.05 U	--	< 0.05 U	--	--
sec-Butylbenzene	mg/kg	8000	SL-1	< 0.00131 U	< 0.00116 U	--	< 0.05 U	< 0.05 U	--	< 0.05 U	--	--
Styrene	mg/kg	4.7	SL-9	< 0.00131 U	< 0.00116 U	--	< 0.05 U	< 0.05 U	--	< 0.05 U	--	--
tert-Butylbenzene	mg/kg	8000	SL-1	< 0.00131 U	< 0.00116 U	--	< 0.05 U	< 0.05 U	--	< 0.05 U	--	--
Tetrachloroethene (PCE)	mg/kg	0.0016	SL-6	**0.00381**	< 0.00116 U	--	< 0.001 U	< 0.001 U	--	< 0.001 U	--	--
trans-1,2-Dichloroethene	mg/kg	0.32	SL-6	< 0.00131 U	< 0.00116 U	--	< 0.002 U	< 0.002 U	--	< 0.002 U	--	--
trans-1,3-Dichloropropene	mg/kg	0.00038	SL-6	< 0.00131 U	< 0.00116 U	--	< 0.01 U	< 0.01 U	--	< 0.01 U	--	--
Trichloroethene (TCE)	mg/kg	0.00027	SL-6	< 0.00131 U	< 0.00116 U	--	< 0.001 U	< 0.001 U	--	< 0.001 U	--	--
Trichlorofluoromethane	mg/kg	24000	SL-1	< 0.00261 U	< 0.00233 U	--	< 0.5 U	< 0.5 U	--	< 0.5 U	--	--
Vinyl Acetate	mg/kg	80000	SL-1	< 0.00653 U	< 0.00582 U	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	5.6E-05	SL-6	< 0.00131 U	< 0.00116 U	--	< 0.001 U	< 0.001 U	--	< 0.001 U	--	--
Conventionals												
Total Organic Carbon	%			**0.07**	< 0.02 U	--	--	--	--	--	--	--
Total Solids	%			**75.3**	**77.9**	--	--	--	**77.9**	--	--	--

Table I.3.C. Saturated Soil Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL

				Location	MW-08		MW-08D	MW-09D					MW-10	MW-11
				Date	03/09/21	03/09/21	09/15/22	09/15/22	09/15/22	09/15/22	09/15/22	09/15/22	03/08/21	03/08/21
				Sample	MW-8-8-9	MW-8-18-20	MW-08D-15-16	MW-09D-6.5-7.5	MW-09D-11-12	MW-09D-15-16	MW-09D-18.5-19.5	MW-09D-24-25	MW-10-5.5-6.5	MW-11-6-7
				Depth	8 - 9 ft	18 - 20 ft	15 - 16 ft	6.5 - 7.5 ft	11 - 12 ft	15 - 16 ft	18.5 - 19.5 ft	24 - 25 ft	5.5 - 6.5 ft	6 - 9 ft
				Geologic Unit	Fill	Alluvial	Alluvial	Tidal Flat	Tidal Flat	Alluvial	Alluvial	Alluvial	Fill	Fill
Analyte	Unit	Preliminary RI SL	Basis of SL											
Metals, Total														
Arsenic	mg/kg	7.3	SL-10	**1.78 J**	--	**0.885**	**1.59**	--	**0.902**	--	--	**3.17**	**2.66**
Barium	mg/kg	250	SL-10	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/kg	0.77	SL-10	< 0.12 U	--	< 0.2 U	< 0.2 U	--	< 0.2 U	--	--	**0.05 J**	< 0.13 U
Chromium	mg/kg	67	SL-9	**6.99 J**	--	**4.4 J**	**6.1 J**	--	**5.14 J**	--	--	**10.3**	**10.9**
Copper	mg/kg	36	SL-10	**8.7**	--	**7.34**	**10.6**	--	**7.42**	--	--	**15.6**	**18.3**
Lead	mg/kg	81	SL-6	**1.15 J**	--	**1.06**	**1.6**	--	**1.12**	--	--	**2.08**	**2.77**
Mercury	mg/kg	0.07	SL-10	< 0.0256 U	--	< 0.025 U	< 0.025 U	--	< 0.025 U	--	--	**0.0312**	**0.0157 J**
Nickel	mg/kg	48	SL-10	**5.26 J**	--	**5.04**	**4.87**	--	**4.94**	--	--	**9.07**	**8.9**
Selenium	mg/kg	0.78	SL-10	--	--	--	--	--	--	--	--	--	--
Silver	mg/kg	0.61	SL-10	--	--	--	--	--	--	--	--	--	--
Zinc	mg/kg	85	SL-10	**19.4**	--	**20.4**	**15.3**	--	**14.8**	--	--	**24.1**	**24.1**
Butyl Tins														
Dibutyltin Ion	mg/kg			< 0.00574 U	--	< 0.00563 U	< 0.0057 U	--	< 0.00573 U	--	--	< 0.00578 U	< 0.00572 U
Monobutyltin	mg/kg			< 0.00405 U	--	< 0.00397 U	< 0.00402 U	--	< 0.00404 U	--	--	< 0.00408 U	< 0.00404 U
Tetrabutyltin	mg/kg			< 0.00497 U	--	< 0.00487 U	< 0.00493 U	--	< 0.00495 U	--	--	< 0.005 U	< 0.00495 U
Tributyltin Ion	mg/kg	0.00011	SL-7	< 0.00383 U	--	< 0.00376 U	< 0.0038 U	--	< 0.00383 U	--	--	< 0.00386 U	< 0.00382 U
Polychlorinated Biphenyl (PCB) Aroclors														
Total PCB Aroclors (ND = 0)	mg/kg	5.5E-07	SL-6	**0.0089 J**	< 0.004 U	< 0.004 U	< 0.004 U	--	< 0.004 U	--	--	**0.0008 J**	**0.0021 J**
Polychlorinated Biphenyl (PCB) Congeners														
Total PCB Congeners (ND = 0)	mg/kg	5.5E-07	SL-6	--	--	--	--	--	--	--	--	--	--
Total PCB TEQ (ND = 0)	mg/kg	3.5E-10	SL-6	--	--	--	--	--	--	--	--	--	--
Dioxins/Furans														
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	5.2E-06	SL-10	--	--	--	--	--	--	--	--	--	--
2,3,7,8-TCDD	mg/kg	5.2E-06	SL-10	--	--	--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)														
1-Methylnaphthalene	mg/kg	20	SL-1	< 0.00497 U	--	< 0.0005 U	< 0.0005 U	--	< 0.0005 U	--	--	< 0.00498 U	< 0.00497 U
2-Methylnaphthalene	mg/kg	0.039	SL-7	< 0.00497 U	--	< 0.0005 U	< 0.0005 U	--	< 0.0005 U	--	--	< 0.00498 U	< 0.00497 U
Acenaphthene	mg/kg	0.028	SL-7	< 0.00497 U	--	< 0.0005 U	< 0.0005 U	--	< 0.0005 U	--	--	< 0.00498 U	< 0.00497 U
Acenaphthylene	mg/kg	1.3	SL-8	< 0.00497 U	--	< 0.0005 U	< 0.0005 U	--	< 0.0005 U	--	--	< 0.00498 U	< 0.00497 U
Anthracene	mg/kg	0.051	SL-7	**0.00221 J**	--	< 0.0005 U	< 0.0005 U	--	< 0.0005 U	--	--	< 0.00498 U	< 0.00497 U
Benzo(g,h,i)perylene	mg/kg	0.67	SL-8	< 0.00497 U	--	< 0.0005 U	< 0.0005 U	--	< 0.0005 U	--	--	< 0.00498 U	**0.00164 J**
Fluoranthene	mg/kg	0.09	SL-7	< 0.00497 U	--	< 0.0005 U	< 0.0005 U	--	< 0.0005 U	--	--	< 0.00498 U	**0.0006 J**
Fluorene	mg/kg	0.029	SL-7	< 0.00497 U	--	< 0.0005 U	< 0.0005 U	--	< 0.0005 U	--	--	< 0.00498 U	< 0.00497 U
Naphthalene	mg/kg	0.0021	SL-6	**0.00131 J**	--	< 0.005 U	< 0.0005 U	< 0.005 U	< 0.0005 U	< 0.005 U	< 0.005 U	< 0.00498 U	< 0.00497 U
Phenanthrene	mg/kg	1.5	SL-8	**0.00218 J**	--	< 0.0005 U	< 0.0005 U	--	< 0.0005 U	--	--	**0.00131 J**	**0.00117 J**
Pyrene	mg/kg	0.14	SL-7	< 0.00497 U	--	< 0.0005 U	< 0.0005 U	--	< 0.0005 U	--	--	< 0.00498 U	**0.00076 J**
Benz(a)anthracene	mg/kg	0.73	SL-9	< 0.00497 U	--	< 0.0005 U	< 0.0005 U	--	< 0.0005 U	--	--	< 0.00498 U	< 0.00497 U
Benzo(a)pyrene	mg/kg	1.6E-05	SL-6	< 0.00497 U	--	< 0.0005 U	< 0.0005 U	--	< 0.0005 U	--	--	< 0.00498 U	< 0.00497 U
Benzo(b)fluoranthene	mg/kg	44	SL-9	< 0.00497 U	--	< 0.0005 U	< 0.0005 U	--	< 0.0005 U	--	--	< 0.00498 U	< 0.00497 U
Benzo(j)fluoranthene	mg/kg			< 0.00497 U	--	--	--	--	--	--	--	< 0.00498 U	< 0.00497 U
Benzo(j,k)fluoranthene	mg/kg			--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	mg/kg	71	SL-9	< 0.00497 U	--	< 0.0005 U	< 0.0005 U	--	< 0.0005 U	--	--	< 0.00498 U	< 0.00497 U
Chrysene	mg/kg	1.4	SL-8	< 0.00497 U	--	< 0.0005 U	< 0.0005 U	--	< 0.0005 U	--	--	< 0.00498 U	**0.00118 J**
Dibenzo(a,h)anthracene	mg/kg	0.23	SL-8	< 0.00497 U	--	< 0.0005 U	< 0.0005 U	--	< 0.0005 U	--	--	< 0.00498 U	< 0.00497 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.6	SL-8	< 0.00497 U	--	< 0.0005 U	< 0.0005 U	--	< 0.0005 U	--	--	< 0.00498 U	< 0.00497 U
Total Benzofluoranthenes	mg/kg	1.1	SL-9	< 0.00993 U	--	< 0.0005 U	< 0.0005 U	--	< 0.0005 U	--	--	< 0.00996 U	< 0.00995 U
Total HPAHs (ND = 1/2 RDL)	mg/kg	1.1	SL-9	< 0.00497 U	--	< 0.0005 U	< 0.0005 U	--	< 0.0005 U	--	--	< 0.00498 U	**0.0216 J**
Total LPAHs (ND = 1/2 RDL)	mg/kg	5.2	SL-8	**0.0132 J**	--	< 0.005 U	< 0.0005 U	--	< 0.0005 U	--	--	**0.0138 J**	**0.0136 J**
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	1.6E-05	SL-6	< 0.00375 U	--	< 0.000378 U	< 0.000378 U	--	< 0.000378 U	--	--	< 0.00376 U	**0.00374 J**
Semi-Volatile Organic Compounds (SVOCs)														
1,2-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	mg/kg	3.6E-05	SL-6	--	--	< 0.0025 U	< 0.0025 U	--	< 0.0025 U	--	--	--	--
1,3-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--	--
1,4-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	mg/kg	2400	SL-1	--	--	--	--	--	--	--	--	--	--
2,3,5,6-Tetrachlorophenol	mg/kg			--	--	--	--	--	--	--	--	--	--
2,3-Dichloroaniline	mg/kg			--	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	mg/kg	1.1	SL-6	< 0.0995 U	--	< 0.025 U	< 0.025 U	--	< 0.025 U	--	--	< 0.0998 U	< 0.0995 U
2,4,6-Trichlorophenol	mg/kg	0.00019	SL-6	< 0.0995 U	--	< 0.025 U	< 0.025 U	--	< 0.025 U	--	--	< 0.0998 U	< 0.0995 U
2,4-Dichlorophenol	mg/kg	0.0043	SL-6	< 0.0995 U	--	< 0.025 U	< 0.025 U	--	< 0.025 U	--	--	< 0.0998 U	< 0.0995 U
2,4-Dimethylphenol	mg/kg	0.0023	SL-7	< 0.0995 U	--	< 0.025 U	< 0.025 U	--	< 0.025 U	--	--	< 0.0998 U	< 0.0995 U
2,4-Dinitrophenol	mg/kg	0.029	SL-6	< 0.199 UJ	--	< 0.075 U	< 0.075 U	--	< 0.075 U	--	--	< 0.2 UJ	< 0.199 UJ
2,4-Dinitrotoluene	mg/kg	0.00016	SL-6	< 0.0995 U	--	< 0.012 U	< 0.012 U	--	< 0.012 U	--	--	< 0.0998 U	< 0.0995 U
2,6-Dinitrotoluene	mg/kg	0.67	SL-1	< 0.0995 U	--	< 0.012 U	< 0.012 U	--	< 0.012 U	--	--	< 0.0998 U	< 0.0995 U
2-Chloronaphthalene	mg/kg	0.28	SL-6	< 0.0199 U	--	< 0.0025 U	< 0.0025 U	--	< 0.0025 U	--	--	< 0.02 U	< 0.0199 U
2-Chlorophenol	mg/kg	0.011	SL-6	< 0.0199 U	--	< 0.025 U	< 0.025 U	--	< 0.025 U	--	--	< 0.02 U	< 0.0199 U
2-Methylphenol	mg/kg	0.0058	SL-7	< 0.0199 U	--	< 0.025 U	< 0.025 U	--	< 0.025 U	--	--	< 0.02 U	< 0.0199 U
2-Nitroaniline	mg/kg	800	SL-1	< 0.0995 U	--	< 0.012 U	< 0.012 U	--	< 0.012 U	--	--	< 0.0998 U	< 0.0995 U
2-Nitrophenol	mg/kg			< 0.0199 U	--	< 0.025 U	< 0.025 U	--	< 0.025 U	--	--	< 0.02 U	< 0.0199 U
3 & 4 Methylphenol	mg/kg			--	--	< 0.05 U	< 0.05 U	--	< 0.05 U	--	--	--	--
3,3'-Dichlorobenzidine	mg/kg	1.1E-05	SL-6	< 0.0995 U	--	< 0.025 U	< 0.025 U	--	< 0.025 U	--	--	< 0.0998 U	< 0.0995 U
3-Nitroaniline	mg/kg			< 0.0995 U	--	< 0.25 U	< 0.25 U	--	< 0.25 U	--	--	< 0.0998 U	< 0.0995 U
4,6-Dinitro-2-methylphenol	mg/kg	0.0073	SL-6	< 0.199 U	--	< 0.075 U	< 0.075 U	--	< 0.075 U	--	--	< 0.2 U	< 0.199 U
4-Bromophenyl phenyl ether	mg/kg			< 0.0199 U	--	< 0.0025 U	< 0.0025 U	--	< 0.0025 U	--	--	< 0.02 U	< 0.0199 U
4-Chloro-3-methylphenol	mg/kg	0.028	SL-6	< 0.0995 U	--	< 0.025 U	< 0.025 U	--	< 0.025 U	--	--	< 0.0998 U	< 0.0995 U
4-Chloroaniline	mg/kg	5	SL-1	< 0.0995 U	--	< 0.25 U	< 0.25 U	--	< 0.25 U	--	--	< 0.0998 U	< 0.0995 U
4-Chlorophenyl phenyl ether	mg/kg			< 0.0199 U	--	< 0.0025 U	< 0.0025 U	--	< 0.0025 U	--	--	< 0.02 U	< 0.0199 U
4-Methylphenol	mg/kg	0.062	SL-7	< 0.0199 U	--	< 0.05 U	< 0.05 U	--	< 0.05 U	--	--	< 0.02 UJ	< 0.0199 UJ
4-Nitroaniline	mg/kg	22	SL-9	< 0.0995 U	--	< 0.25 U	< 0.25 U	--	< 0.25 U	--	--	< 0.0998 U	< 0.0995 U
4-Nitrophenol	mg/kg			< 0.0995 U	--	< 0.075 U	< 0.075 U	--	< 0.075 U	--	--	< 0.0998 U	< 0.0995 U
Aniline	mg/kg	180	SL-1	--	--	--	--	--	--	--	--	--	--
Benzidine	mg/kg	3.4E-08	SL-6	--	--	--	--	--	--	--	--	--	--
Benzoic acid	mg/kg	0.17	SL-7	< 0.199 UJ	--	< 0.12 U	< 0.12 U	--	< 0.12 U	--	--	< 0.2 UJ	< 0.199 UJ
Benzyl alcohol	mg/kg	0.017	SL-7	< 0.0199 U	--	< 0.025 U	< 0.025 U	--	< 0.025 U	--	--	< 0.02 U	< 0.0199 U
Benzyl butyl phthalate	mg/kg	0.00018	SL-6	< 0.0199 U	--	< 0.025 U	< 0.025 U	--	< 0.025 U	--	--	< 0.02 U	< 0.0199 U
Bis(2-chloro-1-methylethyl) ether	mg/kg	0.038	SL-6	< 0.0199 U	--	< 0.0025 U	< 0.0025 U	--	< 0.0025 U	--	--	< 0.02 U	< 0.0199 U
Bis(2-chloroethoxy)methane	mg/kg	240	SL-1	< 0.0199 U	--	< 0.0025 U	< 0.0025 U	--	< 0.0025 U	--	--	< 0.02 U	< 0.0199 U
Bis(2-chloroethyl) ether	mg/kg	2.2E-05	SL-6	< 0.0199 U	--	< 0.0025 U	< 0.0025 U	--	< 0.0025 U	--	--	< 0.02 U	< 0.0199 U
bis(2-Chloroisopropyl)ether	mg/kg			--	--	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) adipate	mg/kg	830	SL-1	--	--	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate	mg/kg	0.0051	SL-6	< 0.0497 U	--	< 0.04 U	< 0.04 U	--	< 0.04 U	--	--	< 0.0499 U	< 0.0497 U
Carbazole	mg/kg	79	SL-9	< 0.0199 U	--	< 0.0025 U	< 0.0025 U	--	< 0.0025 U	--	--	< 0.02 U	< 0.0199 U
Dibenzofuran	mg/kg	0.029	SL-7	< 0.00497 U	--	< 0.0025 U	< 0.0025 U	--	< 0.0025 U	--	--	< 0.00498 U	< 0.00497 U
Diethyl phthalate	mg/kg	0.034	SL-7	< 0.0199 U	--	< 0.025 U	< 0.025 U	--	< 0.025 U	--	--	< 0.02 U	< 0.0199 U
Dimethyl phthalate	mg/kg	0.019	SL-7	< 0.0199 U	--	< 0.025 U	< 0.025 U	--	< 0.025 U	--	--	< 0.02 U	< 0.0199 U
Di-n-butyl phthalate	mg/kg	0.011	SL-9	< 0.0199 U	--	< 0.025 U	< 0.025 U	--	< 0.025 U	--	--	< 0.02 U	< 0.0199 U
Di-n-octyl phthalate	mg/kg	0.33	SL-7	< 0.0199 U	--	< 0.025 U	< 0.025 U	--	< 0.025 U	--	--	< 0.02 U	< 0.0199 U
Hexachlorobenzene	mg/kg	4E-07	SL-6	< 0.0005 U	--	< 0.0025 U	< 0.0025 U	--	< 0.0025 U	--	--	< 0.02 U	< 0.0199 U
Hexachlorobutadiene	mg/kg	1.1E-05	SL-6	< 0.0005 U	--	< 0.01 U	< 0.0025 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.00508 U	< 0.00563 U
Hexachlorocyclopentadiene	mg/kg	0.0017	SL-6	< 0.0995 UJ	--	< 0.0075 U	< 0.0075 U	--	< 0.0075 U	--	--	< 0.0998 UJ	< 0.0995 UJ
Hexachloroethane	mg/kg	9.7E-06	SL-6	< 0.0199 U	--	< 0.0025 U	< 0.0025 U	--	< 0.0025 U	--	--	< 0.02 U	< 0.0199 U
Isophorone	mg/kg	0.039	SL-6	< 0.0199 U	--	< 0.0025 U	< 0.0025 U	--	< 0.0025 U	--	--	< 0.02 U	< 0.0199 U
Nitrobenzene	mg/kg	0.041	SL-6	< 0.0199 U	--	< 0.0025 U	< 0.0025 U	--	< 0.0025 U	--	--	< 0.02 U	< 0.0199 U
N-Nitrosodimethylamine	mg/kg	0.00011	SL-6	--	--	< 0.0025 U	< 0.0025 U	--	< 0.0025 U	--	--	--	--
N-Nitroso-di-n-propylamine	mg/kg	3.3E-05	SL-6	< 0.0199 U	--	< 0.0025 U	< 0.0025 U	--	< 0.0025 U	--	--	< 0.02 U	< 0.0199 U
N-Nitrosodiphenylamine	mg/kg	0.0016	SL-7	< 0.0199 U	--	< 0.0025 UJ	< 0.0025 UJ	--	< 0.0025 UJ	--	--	< 0.02 U	< 0.0199 U
Pentachlorophenol	mg/kg	1.8E-06	SL-6	< 0.0995 UJ	--	< 0.012 U	< 0.012 U	--	< 0.012 U	--	--	< 0.0998 UJ	< 0.0995 UJ
Phenol	mg/kg	0.048	SL-7	< 0.0199 U	--	< 0.025 U	< 0.025 U	--	< 0.025 U	--	--	< 0.02 U	< 0.0199 U
Pyridine	mg/kg	80	SL-1	--	--	--	--	--	--	--	--	--	--

Table I.3.C. Saturated Soil Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL

Analyte	Unit	Preliminary RI SL	Basis of SL	Location	MW-08		MW-08D	MW-09D					MW-10	MW-11
				Date	03/09/21	03/09/21	09/15/22	09/15/22	09/15/22	09/15/22	09/15/22	09/15/22	03/08/21	03/08/21
				Sample	MW-8-8-9	MW-8-18-20	MW-08D-15-16	MW-09D-6.5-7.5	MW-09D-11-12	MW-09D-15-16	MW-09D-18.5-19.5	MW-09D-24-25	MW-10-5.5-6.5	MW-11-6-7
				Depth	8 - 9 ft	18 - 20 ft	15 - 16 ft	6.5 - 7.5 ft	11 - 12 ft	15 - 16 ft	18.5 - 19.5 ft	24 - 25 ft	5.5 - 6.5 ft	6 - 9 ft
				Geologic Unit	Fill	Alluvial	Alluvial	Tidal Flat	Tidal Flat	Alluvial	Alluvial	Alluvial	Fill	Fill
Pesticides														
2,4'-DDD	mg/kg			< 0.001 U	--	--	--	--	--	--	--	--	--	--
2,4'-DDE	mg/kg			< 0.001 U	--	--	--	--	--	--	--	--	--	--
2,4'-DDT	mg/kg			< 0.001 U	--	--	--	--	--	--	--	--	--	--
4,4'-DDD	mg/kg	3.6E-07	SL-6	< 0.001 U	--	< 0.001 U	< 0.001 U	--	< 0.001 U	--	--	--	--	--
4,4'-DDE	mg/kg	7.6E-08	SL-6	< 0.001 U	--	< 0.001 U	< 0.001 U	--	< 0.001 U	--	--	--	--	--
4,4'-DDT	mg/kg	8.1E-07	SL-6	< 0.001 U	--	< 0.001 U	< 0.001 U	--	< 0.001 U	--	--	--	--	--
Aldrin	mg/kg	2E-09	SL-6	< 0.0005 U	--	< 0.0017 UJ	< 0.0017 U	--	< 0.0017 U	--	--	--	--	--
Alpha-BHC	mg/kg	9.8E-08	SL-6	< 0.0005 U	--	< 0.0005 UJ	< 0.0005 U	--	< 0.0005 U	--	--	--	--	--
Beta-BHC	mg/kg	3.4E-06	SL-6	< 0.0005 U	--	< 0.0005 UJ	< 0.0005 U	--	< 0.0005 U	--	--	--	--	--
Chlordane	mg/kg	1.1E-06	SL-6	--	--	--	--	--	--	--	--	--	--	--
cis-Chlordane	mg/kg	5.3E-06	SL-7	< 0.0005 U	--	< 0.0005 UJ	< 0.0005 U	--	< 0.0005 U	--	--	--	--	--
cis-Nonachlor	mg/kg			< 0.001 U	--	--	--	--	--	--	--	--	--	--
Delta-BHC	mg/kg	0.0048	SL-1	< 0.0005 U	--	< 0.0005 UJ	< 0.0005 U	--	< 0.0005 U	--	--	--	--	--
Dieldrin	mg/kg	1.8E-09	SL-6	< 0.001 U	--	< 0.001 U	< 0.001 U	--	< 0.001 U	--	--	--	--	--
Endosulfan I	mg/kg	6.1E-05	SL-6	< 0.0005 U	--	< 0.0005 UJ	< 0.0005 U	--	< 0.0005 U	--	--	--	--	--
Endosulfan II	mg/kg	6.1E-05	SL-6	< 0.001 U	--	< 0.001 U	< 0.001 U	--	< 0.001 U	--	--	--	--	--
Endosulfan Sulfate	mg/kg	0.1	SL-6	< 0.001 U	--	< 0.001 U	< 0.001 U	--	< 0.001 U	--	--	--	--	--
Endrin	mg/kg	2.2E-05	SL-6	< 0.001 UJ	--	< 0.001 UJ	< 0.001 U	--	< 0.001 U	--	--	--	--	--
Endrin Aldehyde	mg/kg	0.00012	SL-6	< 0.001 U	--	< 0.001 UJ	< 0.001 U	--	< 0.001 U	--	--	--	--	--
Endrin ketone	mg/kg			< 0.001 U	--	< 0.001 U	< 0.001 U	--	< 0.001 U	--	--	--	--	--
Heptachlor	mg/kg	3.3E-09	SL-6	< 0.0005 U	--	< 0.0005 UJ	< 0.0005 U	--	< 0.0005 U	--	--	--	--	--
Heptachlor Epoxide	mg/kg	2.5E-08	SL-6	< 0.0005 U	--	< 0.0005 UJ	< 0.0005 U	--	< 0.0005 U	--	--	--	--	--
Lindane	mg/kg	0.00021	SL-6	< 0.0005 U	--	< 0.0005 UJ	< 0.0005 U	--	< 0.0005 U	--	--	--	--	--
Methoxychlor	mg/kg	0.0016	SL-6	< 0.00499 U	--	< 0.005 U	< 0.005 U	--	< 0.005 U	--	--	--	--	--
Mirex	mg/kg	0.00036	SL-6	< 0.001 U	--	--	--	--	--	--	--	--	--	--
Oxychlordane	mg/kg			< 0.001 U	--	--	--	--	--	--	--	--	--	--
Toxaphene	mg/kg	3.1E-06	SL-6	--	--	< 0.025 U	< 0.025 U	--	< 0.025 U	--	--	--	--	--
trans-Chlordane	mg/kg	5.3E-06	SL-7	< 0.0005 U	--	< 0.0017 U	< 0.0017 U	--	< 0.0017 U	--	--	--	--	--
trans-Nonachlor	mg/kg			< 0.001 U	--	--	--	--	--	--	--	--	--	--
Total Petroleum Hydrocarbons (TPH)														
Gasoline Range Organics	mg/kg	30	SL-3	< 8.85 U	--	< 5 U	**2.2 J**	--	**2 J**	--	--	< 6.54 U	< 6.56 U	
Diesel Range Organics	mg/kg	2000	SL-9	< 62.9 U	--	< 5 UJ	< 5 UJ	--	< 5 UJ	--	--	< 63.8 U	< 63.7 U	
Motor Oil Range Organics	mg/kg	2000	SL-9	< 126 U	--	< 25 U	< 25 U	--	< 25 U	--	--	< 128 U	< 127 U	
Diesel and Oil Extended Range Organics	mg/kg	2000	SL-9	< 126 U	--	< 25 UJ	< 25 UJ	--	< 25 UJ	--	--	< 128 U	< 127 U	
Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)														
Benzene	mg/kg	0.00056	SL-6	< 0.00115 U	--	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	**0.0006 J**	**0.00075 J**	
Toluene	mg/kg	0.044	SL-6	< 0.00115 U	--	< 0.002 U	< 0.002 U	< 0.001 U	< 0.002 U	< 0.001 U	< 0.001 U	< 0.00102 U	< 0.00113 U	
Ethylbenzene	mg/kg	0.01	SL-6	< 0.00115 U	--	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.00102 U	< 0.00113 U	
Total Xylenes	mg/kg	0.055	SL-6	< 0.0023 U	--	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	< 0.00203 U	< 0.00225 U	
Volatile Organic Compounds (VOCs)														
1,1,1,2-Tetrachloroethane	mg/kg	38	SL-1	< 0.00115 U	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.00102 U	< 0.00113 U	
1,1,1-Trichloroethane	mg/kg	21	SL-6	< 0.00115 U	--	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	< 0.00102 U	< 0.00113 U	
1,1,2 - Trichlorotrifluoroethane	mg/kg	2400000	SL-1	< 0.0023 U	--	--	--	--	--	--	--	< 0.00203 U	< 0.00225 U	
1,1,2,2-Tetrachloroethane	mg/kg	0.00011	SL-6	< 0.00115 U	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.00102 U	< 0.00113 U	
1,1,2-Trichloroethane	mg/kg	0.00033	SL-6	< 0.00115 U	--	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.00102 U	< 0.00113 U	
1,1-Dichloroethane	mg/kg	180	SL-1	< 0.00115 U	--	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	< 0.00102 U	< 0.00113 U	
1,1-Dichloroethene	mg/kg	1.4	SL-6	< 0.00115 U	--	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.00102 U	< 0.00113 U	
1,1-Dichloropropene	mg/kg			< 0.00115 U	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.00102 U	< 0.00113 U	
1,2,3-Trichlorobenzene	mg/kg	64	SL-9	< 0.00574 U	--	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.00508 U	< 0.00563 U	
1,2,3-Trichloropropane	mg/kg	0.0063	SL-1	< 0.0023 U	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.00203 U	< 0.00225 U	
1,2,4-Trichlorobenzene	mg/kg	7.2E-05	SL-6	< 0.00574 U	--	< 0.0025 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.00508 U	< 0.00563 U	
1,2,4-Trimethylbenzene	mg/kg	800	SL-1	< 0.00115 U	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.00102 U	< 0.00113 U	
1,2-Dibromo-3-chloropropane	mg/kg	0.23	SL-1	< 0.00574 U	--	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.00508 U	< 0.00563 U	
1,2-Dibromoethane (EDB)	mg/kg	0.5	SL-1	< 0.00115 U	--	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.00102 U	< 0.00113 U	
1,2-Dichlorobenzene	mg/kg	0.003	SL-7	< 0.00115 U	--	< 0.05 U	< 0.0025 U	< 0.05 U	< 0.0025 U	< 0.05 U	< 0.05 U	< 0.00102 U	< 0.00113 U	
1,2-Dichloroethane (EDC)	mg/kg	0.024	SL-6	< 0.00115 U	--	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	< 0.00102 U	< 0.00113 U	
1,2-Dichloropropane	mg/kg	0.001	SL-6	< 0.00115 U	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.00102 U	< 0.00113 U	
1,3,5-Trimethylbenzene	mg/kg	800	SL-1	< 0.00115 U	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.00102 U	< 0.00113 U	
1,3-Dichlorobenzene	mg/kg	0.0013	SL-6	< 0.00115 U	--	< 0.0025 U	< 0.0025 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.00102 U	< 0.00113 U	
1,3-Dichloropropane	mg/kg	0.00043	SL-6	< 0.00115 U	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.00102 U	< 0.00113 U	
1,4-Dichloro-2-Butene	mg/kg			< 0.00574 U	--	--	--	--	--	--	--	< 0.00508 U	< 0.00563 U	
1,4-Dichlorobenzene	mg/kg	0.0081	SL-7	< 0.00115 U	--	< 0.0025 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.00102 U	< 0.00113 U	
2,2-Dichloropropane	mg/kg			< 0.00115 U	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.00102 U	< 0.00113 U	
2-Butanone	mg/kg	350	SL-9	< 0.00574 U	--	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.00508 U	< 0.00563 U	
2-Chloroethyl Vinyl Ether	mg/kg			< 0.00574 UJ	--	--	--	--	--	--	--	< 0.00508 U	< 0.00563 U	
2-Chlorotoluene	mg/kg	1600	SL-1	< 0.00115 U	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.00102 U	< 0.00113 U	
2-Hexanone	mg/kg	400	SL-1	< 0.00574 U	--	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.00508 U	< 0.00563 U	
2-Pentanone	mg/kg			< 0.00574 U	--	--	--	--	--	--	--	< 0.00508 U	< 0.00563 U	
4-Chlorotoluene	mg/kg	1600	SL-1	< 0.00115 U	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.00102 U	< 0.00113 U	
4-Methyl-2-pentanone	mg/kg	6400	SL-1	< 0.00574 U	--	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.00508 U	< 0.00563 U	
Acetone	mg/kg	1.2	SL-9	**0.0763**	--	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	**0.126**	**0.0943**	
Acrolein	mg/kg	0.00032	SL-6	< 0.00574 U	--	--	--	--	--	--	--	< 0.00508 U	< 0.00563 U	
Acrylonitrile	mg/kg	8.3E-06	SL-6	< 0.00574 UJ	--	--	--	--	--	--	--	< 0.00508 U	< 0.00563 U	
Bromobenzene	mg/kg	640	SL-1	< 0.00115 U	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.00102 U	< 0.00113 U	
Bromochloromethane	mg/kg			< 0.00115 U	--	--	--	--	--	--	--	< 0.00102 U	< 0.00113 U	
Bromodichloromethane	mg/kg	0.00089	SL-6	< 0.00115 U	--	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.00102 U	< 0.00113 U	
Bromoform	mg/kg	0.005	SL-6	< 0.00115 U	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.00102 U	< 0.00113 U	
Bromomethane	mg/kg	0.079	SL-6	< 0.00115 U	--	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.00102 U	< 0.00113 U	
Carbon Disulfide	mg/kg	0.81	SL-9	< 0.00115 U	--	--	--	--	--	--	--	< 0.00102 U	< 0.00113 U	
Carbon Tetrachloride	mg/kg	0.00015	SL-6	< 0.00115 U	--	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.00102 U	< 0.00113 U	
Chlorobenzene	mg/kg	0.1	SL-6	< 0.00115 U	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.00102 U	< 0.00113 U	
Chloroethane	mg/kg			< 0.0023 U	--	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.00203 U	< 0.00225 U	
Chloroform	mg/kg	0.052	SL-6	< 0.00115 U	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.00102 U	< 0.00113 U	
Chloromethane	mg/kg			< 0.00115 U	--	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.00102 U	< 0.00113 U	
cis-1,2-Dichloroethene (DCE)	mg/kg	24	SL-9	< 0.00115 U	--	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	**0.0078**	**0.017**	< 0.00102 U	< 0.00113 U	
cis-1,3-Dichloropropene	mg/kg	0.00038	SL-6	< 0.00115 U	--	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.00102 U	< 0.00113 U	
Dibromochloromethane	mg/kg	0.00070	SL-6	< 0.00115 U	--	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.00102 U	< 0.00113 U	
Dibromomethane	mg/kg	800	SL-1	< 0.00115 U	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.00102 U	< 0.00113 U	
Dichlorodifluoromethane	mg/kg	16000	SL-1	< 0.00115 U	--	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.00102 U	< 0.00113 U	
Isopropylbenzene	mg/kg	8000	SL-1	< 0.00115 U	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.00102 U	< 0.00113 U	
m,p-Xylenes	mg/kg			< 0.0023 U	--	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	< 0.00203 U	< 0.00225 U	
Methyl tert-butyl ether (MTBE)	mg/kg	560	SL-1	< 0.00115 U	--	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.00102 U	< 0.00113 U	
Methylene Chloride	mg/kg	0.030	SL-6	< 0.00574 U	--	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.00508 U	< 0.00563 U	
Methyliodide	mg/kg			< 0.00115 U	--	--	--	--	--	--	--	< 0.00102 U	< 0.00113 U	
n-Butylbenzene	mg/kg	4000	SL-1	< 0.00115 U	--	--	--	--	--	--	--	< 0.00102 U	< 0.00113 U	
n-Hexane	mg/kg	4800	SL-1	--	--	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	--	--	
n-Propylbenzene	mg/kg	8000	SL-1	< 0.00115 U	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.00102 U	< 0.00113 U	
o-Xylene	mg/kg			< 0.00115 U	--	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.00102 U	< 0.00113 U	
p-Isopropyltoluene	mg/kg	320	SL-1	< 0.00115 U	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.00102 U	< 0.00113 U	
sec-Butylbenzene	mg/kg	8000	SL-1	< 0.00115 U	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.00102 U	< 0.00113 U	
Styrene	mg/kg	4.7	SL-9	< 0.00115 U	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.00102 U	< 0.00113 U	
tert-Butylbenzene	mg/kg	8000	SL-1	< 0.00115 U	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.00102 U	< 0.00113 U	
Tetrachloroethene (PCE)	mg/kg	0.0016	SL-6	< 0.00115 U	--	< 0.001 U	**0.032**	**0.023**	**0.036**	**0.042**	**0.31**	< 0.00102 U	< 0.00113 U	
trans-1,2-Dichloroethene	mg/kg	0.32	SL-6	< 0.00115 U	--	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	< 0.00102 U	< 0.00113 U	
trans-1,3-Dichloropropene	mg/kg	0.00038	SL-6	< 0.00115 U	--	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.00102 U	< 0.00113 U	
Trichloroethene (TCE)	mg/kg	0.00027	SL-6	< 0.00115 U	--	< 0.001 U	**0.0016**	**0.0023**	**0.0044**	**0.015**	**0.026**	< 0.00102 U	< 0.00113 U	
Trichlorofluoromethane	mg/kg	24000	SL-1	< 0.0023 U	--	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.00203 U	< 0.00225 U	
Vinyl Acetate	mg/kg	80000	SL-1	< 0.00574 U	--	--	--	--	--	--	--	< 0.00508 U	< 0.00563 U	
Vinyl Chloride	mg/kg	5.6E-05	SL-6	< 0.00115 U	--	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.00102 U	< 0.00113 U	
Conventionals														
Total Organic Carbon	%			< 0.02 U	--	--	--	--	--	--	--	**0.12**	**0.19**	
Total Solids	%			**77.5**	--	--	--	--	--	--	--	**78.2**	**78.3**	

Table I.3.C. Saturated Soil Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL

				Location	MW-11D			MW-12	MW-13		MW-13D				
				Date	09/15/22	09/15/22	09/15/22	03/03/21	03/01/21	03/01/21	09/23/22	09/23/22	09/23/22	09/23/22	09/23/22
				Sample	MW-11D-10-11	MW-11D-11-12-TIG	MW-11D-20-21	MW-12-9.5-10.5	MW-13-9.5-10.5	MW-13-18-19.5	MW-13D-23-24	MW-13D-28-29	MW-13D-32-33	MW-13D-35.5-36.5	MW-13D-39-40
				Depth	10 - 11 ft	11 - 12 ft	20 - 21 ft	9.5 - 10.5 ft	9.5 - 10.5 ft	18 - 19.5 ft	23 - 24 ft	28 - 29 ft	32 - 33 ft	35.5 - 36.5 ft	39 - 40 ft
				Geologic Unit	Fill	Fill	Alluvial	Fill	Fill	Tidal Flat	Tidal Flat	Alluvial	Alluvial	Till	Till
Analyte	Unit	Preliminary RI SL	Basis of SL												
Metals, Total															
Arsenic	mg/kg	7.3	SL-10	**4.73**	--	**1.26**	**1.41**	**1.78 J**	--	--	--	--	--	--	--
Barium	mg/kg	250	SL-10	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/kg	0.77	SL-10	< 0.2 U	--	< 0.2 U	**0.1 J**	< 0.12 U	--	--	--	--	--	--	--
Chromium	mg/kg	67	SL-9	**18.9**	--	**6.26 J**	**9.88**	**8.61**	--	--	--	--	--	--	--
Copper	mg/kg	36	SL-10	**53.5**	--	**5.9**	**12.9**	**11.2 J**	--	--	--	--	--	--	--
Lead	mg/kg	81	SL-6	**8.11**	--	**1.17**	**2.03**	**1.39 J**	--	--	--	--	--	--	--
Mercury	mg/kg	0.07	SL-10	--	--	< 0.025 U	--	**0.016 J**	--	--	--	--	--	--	--
Nickel	mg/kg	48	SL-10	**11.6**	--	**4.16**	**7.3**	**6.38**	--	--	--	--	--	--	--
Selenium	mg/kg	0.78	SL-10	--	--	--	--	--	--	--	--	--	--	--	--
Silver	mg/kg	0.61	SL-10	--	--	--	--	--	--	--	--	--	--	--	--
Zinc	mg/kg	85	SL-10	**49.9**	--	**14.2**	**40**	**17.9**	--	--	--	--	--	--	--
Butyl Tins															
Dibutyltin Ion	mg/kg			--	--	< 0.00553 U	--	--	--	--	--	--	--	--	--
Monobutyltin	mg/kg			--	--	< 0.0039 U	--	--	--	--	--	--	--	--	--
Tetrabutyltin	mg/kg			--	--	< 0.00479 U	--	--	--	--	--	--	--	--	--
Tributyltin Ion	mg/kg	0.00011	SL-7	--	--	< 0.00369 U	--	--	--	--	--	--	--	--	--
Polychlorinated Biphenyl (PCB) Aroclors															
Total PCB Aroclors (ND = 0)	mg/kg	5.5E-07	SL-6	< 0.004 U	--	< 0.004 U	**0.0053 J**	< 0.004 U	--	--	--	--	--	--	--
Polychlorinated Biphenyl (PCB) Congeners															
Total PCB Congeners (ND = 0)	mg/kg	5.5E-07	SL-6	--	**9.05E-06 J**	--	--	--	--	--	--	--	--	--	--
Total PCB TEQ (ND = 0)	mg/kg	3.5E-10	SL-6	--	< 2.49E-06 U	--	--	--	--	--	--	--	--	--	--
Dioxins/Furans															
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	5.2E-06	SL-10	--	--	--	--	--	--	--	--	--	--	--	--
2,3,7,8-TCDD	mg/kg	5.2E-06	SL-10	--	--	--	--	--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)															
1-Methylnaphthalene	mg/kg	20	SL-1	< 0.0005 U	--	< 0.0005 U	--	< 0.00495 U	--	--	--	--	--	--	--
2-Methylnaphthalene	mg/kg	0.039	SL-7	< 0.0005 U	--	< 0.0005 U	--	< 0.00495 U	--	--	--	--	--	--	--
Acenaphthene	mg/kg	0.028	SL-7	< 0.0005 U	--	< 0.0005 U	--	< 0.00495 U	--	--	--	--	--	--	--
Acenaphthylene	mg/kg	1.3	SL-8	< 0.0005 U	--	< 0.0005 U	--	< 0.00495 U	--	--	--	--	--	--	--
Anthracene	mg/kg	0.051	SL-7	< 0.0005 U	--	< 0.0005 U	--	< 0.00495 U	--	--	--	--	--	--	--
Benzo(g,h,i)perylene	mg/kg	0.67	SL-8	< 0.0005 U	--	< 0.0005 U	--	< 0.00495 U	--	--	--	--	--	--	--
Fluoranthene	mg/kg	0.09	SL-7	< 0.0005 U	--	< 0.0005 U	--	< 0.00495 U	--	--	--	--	--	--	--
Fluorene	mg/kg	0.029	SL-7	< 0.0005 U	--	< 0.0005 U	--	< 0.00495 U	--	--	--	--	--	--	--
Naphthalene	mg/kg	0.0021	SL-6	< 0.0005 U	--	< 0.0005 U	--	< 0.00495 U	< 0.00653 U	< 0.005 U	< 0.005 UJ	< 0.005 UJ	< 0.005 UJ	< 0.005 UJ	< 0.005 UJ
Phenanthrene	mg/kg	1.5	SL-8	< 0.0005 U	--	< 0.0005 U	--	**0.00136 J**	--	--	--	--	--	--	--
Pyrene	mg/kg	0.14	SL-7	< 0.0005 U	--	< 0.0005 U	--	< 0.00495 U	--	--	--	--	--	--	--
Benz(a)anthracene	mg/kg	0.73	SL-9	< 0.0005 U	--	< 0.0005 U	--	< 0.00495 U	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	1.6E-05	SL-6	< 0.0005 U	--	< 0.0005 U	--	< 0.00495 U	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	44	SL-9	< 0.0005 U	--	< 0.0005 U	--	< 0.00495 U	--	--	--	--	--	--	--
Benzo(j)fluoranthene	mg/kg			--	--	--	--	< 0.00495 U	--	--	--	--	--	--	--
Benzo(j,k)fluoranthene	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	mg/kg	71	SL-9	< 0.0005 U	--	< 0.0005 U	--	< 0.00495 U	--	--	--	--	--	--	--
Chrysene	mg/kg	1.4	SL-8	< 0.0005 U	--	< 0.0005 U	--	< 0.00495 U	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	0.23	SL-8	< 0.0005 U	--	< 0.0005 U	--	< 0.00495 U	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	0.6	SL-8	< 0.0005 U	--	< 0.0005 U	--	< 0.00495 U	--	--	--	--	--	--	--
Total Benzofluoranthenes	mg/kg	1.1	SL-9	< 0.0005 U	--	< 0.0005 U	--	< 0.0099 U	--	--	--	--	--	--	--
Total HPAHs (ND = 1/2 RDL)	mg/kg	1.1	SL-9	< 0.0005 U	--	< 0.0005 U	--	< 0.00495 U	--	--	--	--	--	--	--
Total LPAHs (ND = 1/2 RDL)	mg/kg	5.2	SL-8	< 0.0005 U	--	< 0.0005 U	--	**0.0137 J**	--	--	--	--	--	--	--
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	1.6E-05	SL-6	< 0.000378 U	--	< 0.000378 U	--	< 0.00374 U	--	--	--	--	--	--	--
Semi-Volatile Organic Compounds (SVOCs)															
1,2-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	mg/kg	3.6E-05	SL-6	--	--	< 0.0025 U	--	--	--	--	--	--	--	--	--
1,3-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	mg/kg	2400	SL-1	--	--	--	--	--	--	--	--	--	--	--	--
2,3,5,6-Tetrachlorophenol	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
2,3-Dichloroaniline	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	mg/kg	1.1	SL-6	--	--	< 0.025 U	--	--	--	--	--	--	--	--	--
2,4,6-Trichlorophenol	mg/kg	0.00019	SL-6	--	--	< 0.025 U	--	--	--	--	--	--	--	--	--
2,4-Dichlorophenol	mg/kg	0.0043	SL-6	--	--	< 0.025 U	--	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	mg/kg	0.0023	SL-7	--	--	< 0.025 U	--	--	--	--	--	--	--	--	--
2,4-Dinitrophenol	mg/kg	0.029	SL-6	--	--	< 0.075 U	--	--	--	--	--	--	--	--	--
2,4-Dinitrotoluene	mg/kg	0.00016	SL-6	--	--	< 0.012 U	--	--	--	--	--	--	--	--	--
2,6-Dinitrotoluene	mg/kg	0.67	SL-1	--	--	< 0.012 U	--	--	--	--	--	--	--	--	--
2-Chloronaphthalene	mg/kg	0.28	SL-6	--	--	< 0.0025 U	--	--	--	--	--	--	--	--	--
2-Chlorophenol	mg/kg	0.011	SL-6	--	--	< 0.025 U	--	--	--	--	--	--	--	--	--
2-Methylphenol	mg/kg	0.0058	SL-7	--	--	< 0.025 U	--	--	--	--	--	--	--	--	--
2-Nitroaniline	mg/kg	800	SL-1	--	--	< 0.012 U	--	--	--	--	--	--	--	--	--
2-Nitrophenol	mg/kg			--	--	< 0.025 U	--	--	--	--	--	--	--	--	--
3 & 4 Methylphenol	mg/kg			--	--	< 0.05 U	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	mg/kg	1.1E-05	SL-6	--	--	< 0.025 U	--	--	--	--	--	--	--	--	--
3-Nitroaniline	mg/kg			--	--	< 0.25 U	--	--	--	--	--	--	--	--	--
4,6-Dinitro-2-methylphenol	mg/kg	0.0073	SL-6	--	--	< 0.075 U	--	--	--	--	--	--	--	--	--
4-Bromophenyl phenyl ether	mg/kg			--	--	< 0.0025 U	--	--	--	--	--	--	--	--	--
4-Chloro-3-methylphenol	mg/kg	0.028	SL-6	--	--	< 0.025 U	--	--	--	--	--	--	--	--	--
4-Chloroaniline	mg/kg	5	SL-1	--	--	< 0.25 U	--	--	--	--	--	--	--	--	--
4-Chlorophenyl phenyl ether	mg/kg			--	--	< 0.0025 U	--	--	--	--	--	--	--	--	--
4-Methylphenol	mg/kg	0.062	SL-7	--	--	< 0.05 U	--	--	--	--	--	--	--	--	--
4-Nitroaniline	mg/kg	22	SL-9	--	--	< 0.25 U	--	--	--	--	--	--	--	--	--
4-Nitrophenol	mg/kg			--	--	< 0.075 U	--	--	--	--	--	--	--	--	--
Aniline	mg/kg	180	SL-1	--	--	--	--	--	--	--	--	--	--	--	--
Benzidine	mg/kg	3.4E-08	SL-6	--	--	--	--	--	--	--	--	--	--	--	--
Benzoic acid	mg/kg	0.17	SL-7	--	--	< 0.12 U	--	--	--	--	--	--	--	--	--
Benzyl alcohol	mg/kg	0.017	SL-7	--	--	< 0.025 U	--	--	--	--	--	--	--	--	--
Benzyl butyl phthalate	mg/kg	0.00018	SL-6	--	--	< 0.025 U	--	--	--	--	--	--	--	--	--
Bis(2-chloro-1-methylethyl) ether	mg/kg	0.038	SL-6	--	--	< 0.0025 U	--	--	--	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	mg/kg	240	SL-1	--	--	< 0.0025 U	--	--	--	--	--	--	--	--	--
Bis(2-chloroethyl) ether	mg/kg	2.2E-05	SL-6	--	--	< 0.0025 U	--	--	--	--	--	--	--	--	--
bis(2-Chloroisopropyl)ether	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) adipate	mg/kg	830	SL-1	--	--	--	--	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate	mg/kg	0.0051	SL-6	--	--	< 0.04 U	--	--	--	--	--	--	--	--	--
Carbazole	mg/kg	79	SL-9	--	--	< 0.0025 U	--	--	--	--	--	--	--	--	--
Dibenzofuran	mg/kg	0.029	SL-7	--	--	< 0.0025 U	--	< 0.00495 U	--	--	--	--	--	--	--
Diethyl phthalate	mg/kg	0.034	SL-7	--	--	< 0.025 U	--	--	--	--	--	--	--	--	--
Dimethyl phthalate	mg/kg	0.019	SL-7	--	--	< 0.025 U	--	--	--	--	--	--	--	--	--
Di-n-butyl phthalate	mg/kg	0.011	SL-9	--	--	< 0.025 U	--	--	--	--	--	--	--	--	--
Di-n-octyl phthalate	mg/kg	0.33	SL-7	--	--	< 0.025 U	--	--	--	--	--	--	--	--	--
Hexachlorobenzene	mg/kg	4E-07	SL-6	--	--	< 0.0025 U	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	1.1E-05	SL-6	--	--	< 0.0025 U	--	< 0.00627 U	< 0.00653 U	< 0.01 U	< 0.01 UJ	< 0.01 UJ	< 0.01 UJ	< 0.01 UJ	< 0.01 UJ
Hexachlorocyclopentadiene	mg/kg	0.0017	SL-6	--	--	< 0.0075 U	--	--	--	--	--	--	--	--	--
Hexachloroethane	mg/kg	9.7E-06	SL-6	--	--	< 0.0025 U	--	--	--	--	--	--	--	--	--
Isophorone	mg/kg	0.039	SL-6	--	--	< 0.0025 U	--	--	--	--	--	--	--	--	--
Nitrobenzene	mg/kg	0.041	SL-6	--	--	< 0.0025 U	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine	mg/kg	0.00011	SL-6	--	--	< 0.0025 U	--	--	--	--	--	--	--	--	--
N-Nitroso-di-n-propylamine	mg/kg	3.3E-05	SL-6	--	--	< 0.0025 U	--	--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	mg/kg	0.0016	SL-7	--	--	< 0.0025 UJ	--	--	--	--	--	--	--	--	--
Pentachlorophenol	mg/kg	1.8E-06	SL-6	--	--	< 0.012 U	--	--	--	--	--	--	--	--	--
Phenol	mg/kg	0.048	SL-7	--	--	< 0.025 U	--	--	--	--	--	--	--	--	--
Pyridine	mg/kg	80	SL-1	--	--	--	--	--	--	--	--	--	--	--	--

Table I.3.C. Saturated Soil Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL

				Location	MW-11D			MW-12	MW-13		MW-13D				
				Date	09/15/22	09/15/22	09/15/22	03/03/21	03/01/21	03/01/21	09/23/22	09/23/22	09/23/22	09/23/22	09/23/22
				Sample	MW-11D-10-11	MW-11D-11-12-TIG	MW-11D-20-21	MW-12-9.5-10.5	MW-13-9.5-10.5	MW-13-18-19.5	MW-13D-23-24	MW-13D-28-29	MW-13D-32-33	MW-13D-35.5-36.5	MW-13D-39-40
				Depth	10 - 11 ft	11 - 12 ft	20 - 21 ft	9.5 - 10.5 ft	9.5 - 10.5 ft	18 - 19.5 ft	23 - 24 ft	28 - 29 ft	32 - 33 ft	35.5 - 36.5 ft	39 - 40 ft
				Geologic Unit	Fill	Fill	Alluvial	Fill	Fill	Tidal Flat	Tidal Flat	Alluvial	Alluvial	Till	Till
Analyte	Unit	Preliminary RI SL	Basis of SL												
Pesticides															
2,4'-DDD	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
2,4'-DDE	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
2,4'-DDT	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
4,4'-DDD	mg/kg	3.6E-07	SL-6	< 0.0017 UJ	--	< 0.001 U	--	--	--	--	--	--	--	--	--
4,4'-DDE	mg/kg	7.6E-08	SL-6	< 0.0017 UJ	--	< 0.001 U	--	--	--	--	--	--	--	--	--
4,4'-DDT	mg/kg	8.1E-07	SL-6	< 0.0017 UJ	--	< 0.001 U	--	--	--	--	--	--	--	--	--
Aldrin	mg/kg	2E-09	SL-6	< 0.0017 UJ	--	< 0.0017 U	--	--	--	--	--	--	--	--	--
Alpha-BHC	mg/kg	9.8E-08	SL-6	< 0.0017 UJ	--	< 0.0005 U	--	--	--	--	--	--	--	--	--
Beta-BHC	mg/kg	3.4E-06	SL-6	< 0.0017 UJ	--	< 0.0005 U	--	--	--	--	--	--	--	--	--
Chlordane	mg/kg	1.1E-06	SL-6	--	--	--	--	--	--	--	--	--	--	--	--
cis-Chlordane	mg/kg	5.3E-06	SL-7	< 0.0017 UJ	--	< 0.0005 U	--	--	--	--	--	--	--	--	--
cis-Nonachlor	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
Delta-BHC	mg/kg	0.0048	SL-1	< 0.0017 UJ	--	< 0.0005 U	--	--	--	--	--	--	--	--	--
Dieldrin	mg/kg	1.8E-09	SL-6	< 0.0017 UJ	--	< 0.001 U	--	--	--	--	--	--	--	--	--
Endosulfan I	mg/kg	6.1E-05	SL-6	< 0.0017 UJ	--	< 0.0005 U	--	--	--	--	--	--	--	--	--
Endosulfan II	mg/kg	6.1E-05	SL-6	< 0.0017 UJ	--	< 0.001 U	--	--	--	--	--	--	--	--	--
Endosulfan Sulfate	mg/kg	0.1	SL-6	< 0.0017 UJ	--	< 0.001 U	--	--	--	--	--	--	--	--	--
Endrin	mg/kg	2.2E-05	SL-6	< 0.0017 UJ	--	< 0.001 U	--	--	--	--	--	--	--	--	--
Endrin Aldehyde	mg/kg	0.00012	SL-6	< 0.0017 UJ	--	< 0.001 U	--	--	--	--	--	--	--	--	--
Endrin ketone	mg/kg			< 0.0085 UJ	--	< 0.001 U	--	--	--	--	--	--	--	--	--
Heptachlor	mg/kg	3.3E-09	SL-6	< 0.0017 UJ	--	< 0.0005 U	--	--	--	--	--	--	--	--	--
Heptachlor Epoxide	mg/kg	2.5E-08	SL-6	< 0.0017 UJ	--	< 0.0005 U	--	--	--	--	--	--	--	--	--
Lindane	mg/kg	0.00021	SL-6	< 0.0017 UJ	--	< 0.0005 U	--	--	--	--	--	--	--	--	--
Methoxychlor	mg/kg	0.0016	SL-6	< 0.0017 UJ	--	< 0.005 U	--	--	--	--	--	--	--	--	--
Mirex	mg/kg	0.00036	SL-6	--	--	--	--	--	--	--	--	--	--	--	--
Oxychlordane	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
Toxaphene	mg/kg	3.1E-06	SL-6	< 0.025 UJ	--	< 0.025 U	--	--	--	--	--	--	--	--	--
trans-Chlordane	mg/kg	5.3E-06	SL-7	< 0.0017 UJ	--	< 0.0017 U	--	--	--	--	--	--	--	--	--
trans-Nonachlor	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
Total Petroleum Hydrocarbons (TPH)															
Gasoline Range Organics	mg/kg	30	SL-3	**2.4 J**	--	< 5 U	--	**10.4**	**71.9**	**4.1 J**	--	< 5 U	--	--	
Diesel Range Organics	mg/kg	2000	SL-9	< 5 UJ	--	< 5 UJ	--	< 62.1 U	< 70 U	< 10 U	--	< 10 U	--	--	
Motor Oil Range Organics	mg/kg	2000	SL-9	< 25 U	--	< 25 U	--	< 124 U	< 140 U	< 50 U	--	< 50 U	--	--	
Diesel and Oil Extended Range Organics	mg/kg	2000	SL-9	< 25 UJ	--	< 25 UJ	--	< 124 U	< 140 U	< 50 U	--	< 50 U	--	--	
Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)															
Benzene	mg/kg	0.00056	SL-6	--	--	< 0.001 U	--	**0.00064 J**	**0.00071 J**	**0.0031**	< 0.001 UJ	**0.0047 J**	**0.01 J**	< 0.001 UJ	
Toluene	mg/kg	0.044	SL-6	--	--	< 0.002 U	--	< 0.00125 U	< 0.00131 U	< 0.001 U	< 0.001 UJ	< 0.001 UJ	< 0.001 UJ	< 0.001 UJ	
Ethylbenzene	mg/kg	0.01	SL-6	--	--	< 0.001 U	--	< 0.00125 U	< 0.00131 U	< 0.001 U	< 0.001 UJ	**0.0024 J**	< 0.001 UJ	< 0.001 UJ	
Total Xylenes	mg/kg	0.055	SL-6	--	--	< 0.002 U	--	< 0.00251 U	< 0.00261 U	< 0.002 U	< 0.002 UJ	**0.003 J**	< 0.002 UJ	< 0.002 UJ	
Volatile Organic Compounds (VOCs)															
1,1,1,2-Tetrachloroethane	mg/kg	38	SL-1	--	--	< 0.05 U	--	< 0.00125 U	< 0.00131 U	< 0.05 U	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	
1,1,1-Trichloroethane	mg/kg	21	SL-6	--	--	< 0.002 U	--	< 0.00125 U	< 0.00131 U	< 0.002 U	< 0.002 UJ	< 0.002 UJ	< 0.002 UJ	< 0.002 UJ	
1,1,2 - Trichlorotrifluoroethane	mg/kg	2400000	SL-1	--	--	--	--	< 0.00251 U	< 0.00261 U	--	--	--	--	--	
1,1,2,2-Tetrachloroethane	mg/kg	0.00011	SL-6	--	--	< 0.05 U	--	< 0.00125 U	< 0.00131 U	< 0.05 U	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	
1,1,2-Trichloroethane	mg/kg	0.00033	SL-6	--	--	< 0.005 U	--	< 0.00125 U	< 0.00131 U	< 0.005 U	< 0.005 UJ	< 0.005 UJ	< 0.005 UJ	< 0.005 UJ	
1,1-Dichloroethane	mg/kg	180	SL-1	--	--	< 0.002 U	--	< 0.00125 U	< 0.00131 U	< 0.002 U	< 0.002 UJ	< 0.002 UJ	< 0.002 UJ	< 0.002 UJ	
1,1-Dichloroethene	mg/kg	1.4	SL-6	--	--	< 0.001 U	--	< 0.00125 U	< 0.00131 U	< 0.001 U	< 0.001 UJ	< 0.001 UJ	< 0.001 UJ	< 0.001 UJ	
1,1-Dichloropropene	mg/kg			--	--	< 0.05 U	--	< 0.00125 U	< 0.00131 U	< 0.05 U	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	
1,2,3-Trichlorobenzene	mg/kg	64	SL-9	--	--	< 0.25 U	--	< 0.00627 U	< 0.00653 U	< 0.25 U	< 0.25 UJ	< 0.25 UJ	< 0.25 UJ	< 0.25 UJ	
1,2,3-Trichloropropane	mg/kg	0.0063	SL-1	--	--	< 0.05 U	--	< 0.00251 U	< 0.00261 U	< 0.05 U	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	
1,2,4-Trichlorobenzene	mg/kg	7.2E-05	SL-6	--	--	< 0.0025 U	--	< 0.00627 U	< 0.00653 U	< 0.01 U	< 0.01 UJ	< 0.01 UJ	< 0.01 UJ	< 0.01 UJ	
1,2,4-Trimethylbenzene	mg/kg	800	SL-1	--	--	< 0.05 U	--	< 0.00125 U	< 0.00131 U	< 0.05 U	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	
1,2-Dibromo-3-chloropropane	mg/kg	0.23	SL-1	--	--	< 0.5 U	--	< 0.00627 U	< 0.00653 U	< 0.5 U	< 0.5 UJ	< 0.5 UJ	< 0.5 UJ	< 0.5 UJ	
1,2-Dibromoethane (EDB)	mg/kg	0.5	SL-1	--	--	< 0.005 U	--	< 0.00125 U	< 0.00131 U	< 0.005 U	< 0.005 UJ	< 0.005 UJ	< 0.005 UJ	< 0.005 UJ	
1,2-Dichlorobenzene	mg/kg	0.003	SL-7	--	--	< 0.0025 U	--	< 0.00125 U	< 0.00131 U	< 0.05 U	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	
1,2-Dichloroethane (EDC)	mg/kg	0.024	SL-6	--	--	< 0.002 U	--	< 0.00125 U	< 0.00131 U	< 0.002 U	< 0.002 UJ	< 0.002 UJ	< 0.002 UJ	< 0.002 UJ	
1,2-Dichloropropane	mg/kg	0.001	SL-6	--	--	< 0.05 U	--	< 0.00125 U	< 0.00131 U	< 0.05 U	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	
1,3,5-Trimethylbenzene	mg/kg	800	SL-1	--	--	< 0.05 U	--	< 0.00125 U	< 0.00131 U	< 0.05 U	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	
1,3-Dichlorobenzene	mg/kg	0.0013	SL-6	--	--	< 0.0025 U	--	< 0.00125 U	< 0.00131 U	< 0.05 U	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	
1,3-Dichloropropane	mg/kg	0.00043	SL-6	--	--	< 0.05 U	--	< 0.00125 U	< 0.00131 U	< 0.05 U	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	
1,4-Dichloro-2-Butene	mg/kg			--	--	--	--	< 0.00627 U	< 0.00653 U	--	--	--	--	--	
1,4-Dichlorobenzene	mg/kg	0.0081	SL-7	--	--	< 0.0025 U	--	< 0.00125 U	< 0.00131 U	< 0.05 U	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	
2,2-Dichloropropane	mg/kg			--	--	< 0.05 U	--	< 0.00125 U	< 0.00131 U	< 0.05 U	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	
2-Butanone	mg/kg	350	SL-9	--	--	< 1 U	--	< 0.00627 U	< 0.00653 U	< 1 U	< 1 UJ	< 1 UJ	< 1 UJ	< 1 UJ	
2-Chloroethyl Vinyl Ether	mg/kg			--	--	--	--	< 0.00627 UJ	< 0.00653 UJ	--	--	--	--	--	
2-Chlorotoluene	mg/kg	1600	SL-1	--	--	< 0.05 U	--	< 0.00125 U	< 0.00131 U	< 0.05 U	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	
2-Hexanone	mg/kg	400	SL-1	--	--	< 0.5 U	--	< 0.00627 U	< 0.00653 U	< 0.5 U	< 0.5 UJ	< 0.5 UJ	< 0.5 UJ	< 0.5 UJ	
2-Pentanone	mg/kg			--	--	--	--	< 0.00627 UJ	< 0.00653 UJ	--	--	--	--	--	
4-Chlorotoluene	mg/kg	1600	SL-1	--	--	< 0.05 U	--	< 0.00125 U	< 0.00131 U	< 0.05 U	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	
4-Methyl-2-pentanone	mg/kg	6400	SL-1	--	--	< 1 U	--	< 0.00627 U	< 0.00653 U	< 1 U	< 1 UJ	< 1 UJ	< 1 UJ	< 1 UJ	
Acetone	mg/kg	1.2	SL-9	--	--	< 5 U	--	**0.0771 J**	**0.075**	< 5 U	< 5 UJ	< 5 UJ	< 5 UJ	< 5 UJ	
Acrolein	mg/kg	0.00032	SL-6	--	--	--	--	< 0.00627 U	< 0.00653 U	--	--	--	--	--	
Acrylonitrile	mg/kg	8.3E-06	SL-6	--	--	--	--	< 0.00627 U	< 0.00653 U	--	--	--	--	--	
Bromobenzene	mg/kg	640	SL-1	--	--	< 0.05 U	--	< 0.00125 U	< 0.00131 U	< 0.05 U	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	
Bromochloromethane	mg/kg			--	--	--	--	< 0.00125 U	< 0.00131 U	--	--	--	--	--	
Bromodichloromethane	mg/kg	0.00089	SL-6	--	--	< 0.005 U	--	< 0.00125 U	< 0.00131 U	< 0.005 U	< 0.005 UJ	< 0.005 UJ	< 0.005 UJ	< 0.005 UJ	
Bromoform	mg/kg	0.005	SL-6	--	--	< 0.05 U	--	< 0.00125 U	< 0.00131 U	< 0.05 U	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	
Bromomethane	mg/kg	0.079	SL-6	--	--	< 0.1 U	--	< 0.00125 U	< 0.00131 U	< 0.1 U	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	
Carbon Disulfide	mg/kg	0.81	SL-9	--	--	--	--	< 0.00125 U	< 0.00131 U	--	--	--	--	--	
Carbon Tetrachloride	mg/kg	0.00015	SL-6	--	--	< 0.005 U	--	< 0.00125 U	< 0.00131 U	< 0.005 U	< 0.005 UJ	< 0.005 UJ	< 0.005 UJ	< 0.005 UJ	
Chlorobenzene	mg/kg	0.1	SL-6	--	--	< 0.05 U	--	< 0.00125 U	< 0.00131 U	< 0.05 U	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	
Chloroethane	mg/kg			--	--	< 0.1 U	--	< 0.00251 U	< 0.00261 U	< 0.1 U	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	
Chloroform	mg/kg	0.052	SL-6	--	--	< 0.05 U	--	< 0.00125 U	< 0.00131 U	< 0.05 U	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	
Chloromethane	mg/kg			--	--	< 0.5 U	--	< 0.00125 U	< 0.00131 U	< 0.5 U	< 0.5 UJ	< 0.5 UJ	< 0.5 UJ	< 0.5 UJ	
cis-1,2-Dichloroethene (DCE)	mg/kg	24	SL-9	--	--	< 0.001 U	--	**0.00812**	**0.00468 J**	**0.039**	< 0.001 UJ	< 0.001 UJ	**0.0076 J**	< 0.001 UJ	
cis-1,3-Dichloropropene	mg/kg	0.00038	SL-6	--	--	< 0.01 U	--	< 0.00125 U	< 0.00131 U	< 0.01 U	< 0.01 UJ	< 0.01 UJ	< 0.01 UJ	< 0.01 UJ	
Dibromochloromethane	mg/kg	0.00070	SL-6	--	--	< 0.01 U	--	< 0.00125 U	< 0.00131 U	< 0.01 U	< 0.01 UJ	< 0.01 UJ	< 0.01 UJ	< 0.01 UJ	
Dibromomethane	mg/kg	800	SL-1	--	--	< 0.05 U	--	< 0.00125 U	< 0.00131 U	< 0.05 U	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	
Dichlorodifluoromethane	mg/kg	16000	SL-1	--	--	< 0.5 U	--	< 0.00125 U	< 0.00131 U	< 0.5 U	< 0.5 UJ	< 0.5 UJ	< 0.5 UJ	< 0.5 UJ	
Isopropylbenzene	mg/kg	8000	SL-1	--	--	< 0.05 U	--	< 0.00125 U	< 0.00131 U	< 0.05 U	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	
m,p-Xylenes	mg/kg			--	--	< 0.002 U	--	< 0.00251 U	< 0.00261 U	< 0.002 U	< 0.002 UJ	**0.003 J**	< 0.002 UJ	< 0.002 UJ	
Methyl tert-butyl ether (MTBE)	mg/kg	560	SL-1	--	--	< 0.001 U	--	< 0.00125 U	< 0.00131 U	< 0.001 U	< 0.001 UJ	< 0.001 UJ	< 0.001 UJ	< 0.001 UJ	
Methylene Chloride	mg/kg	0.030	SL-6	--	--	< 0.2 U	--	**0.0277**	**0.00729**	< 0.2 U	< 0.2 UJ	< 0.2 UJ	< 0.2 UJ	< 0.2 UJ	
Methyliodide	mg/kg			--	--	--	--	< 0.00125 U	< 0.00131 U	--	--	--	--	--	
n-Butylbenzene	mg/kg	4000	SL-1	--	--	--	--	< 0.00125 U	< 0.00131 U	--	--	--	--	--	
n-Hexane	mg/kg	4800	SL-1	--	--	< 0.25 U	--	--	--	< 0.25 U	< 0.25 UJ	< 0.25 UJ	< 0.25 UJ	< 0.25 UJ	
n-Propylbenzene	mg/kg	8000	SL-1	--	--	< 0.05 U	--	< 0.00125 U	< 0.00131 U	< 0.05 U	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	
o-Xylene	mg/kg			--	--	< 0.001 U	--	< 0.00125 U	< 0.00131 U	< 0.001 U	< 0.001 UJ	< 0.001 UJ	< 0.001 UJ	< 0.001 UJ	
p-Isopropyltoluene	mg/kg	320	SL-1	--	--	< 0.05 U	--	< 0.00125 U	< 0.00131 U	< 0.05 U	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	
sec-Butylbenzene	mg/kg	8000	SL-1	--	--	< 0.05 U	--	< 0.00125 U	< 0.00131 U	< 0.05 U	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	
Styrene	mg/kg	4.7	SL-9	--	--	< 0.05 U	--	< 0.00125 U	< 0.00131 U	< 0.05 U	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	
tert-Butylbenzene	mg/kg	8000	SL-1	--	--	< 0.05 U	--	< 0.00125 U	< 0.00131 U	< 0.05 U	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	< 0.05 UJ	
Tetrachloroethene (PCE)	mg/kg	0.0016	SL-6	--	--	< 0.001 U	--	**3.28**	**7.44**	< 0.001 U	< 0.001 UJ	< 0.001 UJ	< 0.001 UJ	< 0.001 UJ	
trans-1,2-Dichloroethene	mg/kg	0.32	SL-6	--	--	< 0.002 U	--	< 0.00125 U	< 0.00131 U	< 0.002 U	< 0.002 UJ	< 0.002 UJ	< 0.002 UJ	< 0.002 UJ	
trans-1,3-Dichloropropene	mg/kg	0.00038	SL-6	--	--	< 0.01 U	--	< 0.00125 U	< 0.00131 U	< 0.01 U	< 0.01 UJ	< 0.01 UJ	< 0.01 UJ	< 0.01 UJ	
Trichloroethene (TCE)	mg/kg	0.00027	SL-6	--	--	< 0.001 U	--	**0.0189**	**0.00654**	**0.0011**	< 0.001 UJ	< 0.001 UJ	< 0.001 UJ	< 0.001 UJ	
Trichlorofluoromethane	mg/kg	24000	SL-1	--	--	< 0.5 U	--	< 0.00251 U	< 0.00261 U	< 0.5 U	< 0.5 UJ	< 0.5 UJ	< 0.5 UJ	< 0.5 UJ	
Vinyl Acetate	mg/kg	80000	SL-1	--	--	--	--	< 0.00627 U	< 0.00653 U	--	--	--	--	--	
Vinyl Chloride	mg/kg	5.6E-05	SL-6	--	--	< 0.001 U	--	< 0.00125 U	< 0.00131 U	**0.0014**	< 0.001 UJ	< 0.001 UJ	**0.0016 J**	< 0.001 UJ	
Conventionals															
Total Organic Carbon	%			--	--	--	--	**0.13**	**0.2**	--	--	--	--	--	
Total Solids	%			--	**71.5**	--	--	**80.0**	**71.4**	--	--	--	--	--	

Table I.3.C. Saturated Soil Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL

				Location	MW-16	MW-16D					MW-17		MW-18	
				Date	09/23/22	09/22/22	09/22/22	09/22/22	09/23/22	09/23/22	09/16/22	09/16/22	09/13/22	09/13/22
				Sample	MW-16-5.5-6.5	MW-16D-10.5-11.5	MW-16D-17-18	MW-16D-19-20	MW-16D-24-25	MW-16D-29-30	MW-17-12-13	MW-17-16.25-17.25	MW-18-13-14	MW-18-FD-13-14
				Depth	5.5 - 6.5 ft	10.5 - 11.5 ft	17 - 18 ft	19 - 20 ft	24 - 35 ft	29 - 30 ft	12 - 13 ft	16.25 - 17.25 ft	13 - 14 ft	13 - 14 ft
				Geologic Unit	Fill	Tidal Flat	Alluvial	Alluvial	Till	Till	Fill	Alluvial	Alluvial	Alluvial
Analyte	Unit	Preliminary RI SL	Basis of SL											
Metals, Total														
Arsenic	mg/kg	7.3	SL-10	--	--	**1.26**	--	--	--	**0.59**	--	**0.672**	--
Barium	mg/kg	250	SL-10	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/kg	0.77	SL-10	--	--	< 0.2 U	--	--	--	< 0.2 U	--	< 0.2 U	--
Chromium	mg/kg	67	SL-9	--	--	**5.08**	--	--	--	**6.21**	--	**8.54**	--
Copper	mg/kg	36	SL-10	--	--	**6.84**	--	--	--	**9.34**	--	**11**	--
Lead	mg/kg	81	SL-6	--	--	**1.06 J**	--	--	--	**1.2**	--	**1.39**	--
Mercury	mg/kg	0.07	SL-10	--	--	< 0.025 U	--	--	--	< 0.025 U	--	< 0.025 U	< 0.025 U
Nickel	mg/kg	48	SL-10	--	--	**5.07**	--	--	--	**4.45**	--	**8.79**	--
Selenium	mg/kg	0.78	SL-10	--	--	--	--	--	--	--	--	--	--
Silver	mg/kg	0.61	SL-10	--	--	--	--	--	--	--	--	--	--
Zinc	mg/kg	85	SL-10	--	--	**15.2 J**	--	--	--	**16.7**	--	**18.6**	--
Butyl Tins														
Dibutyltin Ion	mg/kg			--	--	< 0.00577 U	< 0.00578 U	--	--	< 0.00574 U	--	< 0.00572 U	--
Monobutyltin	mg/kg			--	--	< 0.00407 U	< 0.00408 U	--	--	< 0.00405 U	--	< 0.00404 U	--
Tetrabutyltin	mg/kg			--	--	< 0.00499 U	< 0.005 U	--	--	< 0.00496 U	--	< 0.00495 U	--
Tributyltin Ion	mg/kg	0.00011	SL-7	--	--	< 0.00385 U	< 0.00386 U	--	--	< 0.00383 U	--	< 0.00382 U	--
Polychlorinated Biphenyl (PCB) Aroclors														
Total PCB Aroclors (ND = 0)	mg/kg	5.5E-07	SL-6	**0.56**	**0.092**	**0.0045**	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	--	< 0.004 U	--
Polychlorinated Biphenyl (PCB) Congeners														
Total PCB Congeners (ND = 0)	mg/kg	5.5E-07	SL-6	--	--	--	--	--	--	--	--	--	--
Total PCB TEQ (ND = 0)	mg/kg	3.5E-10	SL-6	--	--	--	--	--	--	--	--	--	--
Dioxins/Furans														
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	5.2E-06	SL-10	--	--	--	--	--	--	--	--	--	--
2,3,7,8-TCDD	mg/kg	5.2E-06	SL-10	--	--	--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)														
1-Methylnaphthalene	mg/kg	20	SL-1	< 0.05 U	< 0.001 U	< 0.0005 U	--	--	--	**0.00058**	< 0.0005 U	< 0.0005 U	< 0.0005 U
2-Methylnaphthalene	mg/kg	0.039	SL-7	< 0.05 U	< 0.001 U	< 0.0005 U	--	--	--	**0.00052**	< 0.0005 U	< 0.0005 U	< 0.0005 U
Acenaphthene	mg/kg	0.028	SL-7	< 0.05 U	< 0.001 U	< 0.0005 U	--	--	--	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U
Acenaphthylene	mg/kg	1.3	SL-8	< 0.05 U	< 0.001 U	< 0.0005 U	--	--	--	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U
Anthracene	mg/kg	0.051	SL-7	< 0.05 U	< 0.001 U	< 0.0005 U	--	--	--	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U
Benzo(g,h,i)perylene	mg/kg	0.67	SL-8	< 0.05 U	**0.0011 J**	< 0.0005 U	--	--	--	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U
Fluoranthene	mg/kg	0.09	SL-7	< 0.05 U	**0.0028**	**0.00068**	--	--	--	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U
Fluorene	mg/kg	0.029	SL-7	< 0.05 U	< 0.001 U	< 0.0005 U	--	--	--	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U
Naphthalene	mg/kg	0.0021	SL-6	< 0.005 U	< 0.001 U	< 0.0005 U	--	--	--	**0.0021**	< 0.005 U	< 0.005 U	< 0.005 U
Phenanthrene	mg/kg	1.5	SL-8	**0.078**	**0.0026**	**0.0012**	--	--	--	**0.0011**	< 0.0005 U	< 0.0005 U	< 0.0005 U
Pyrene	mg/kg	0.14	SL-7	< 0.05 U	**0.0037**	**0.00057**	--	--	--	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U
Benz(a)anthracene	mg/kg	0.73	SL-9	< 0.05 U	< 0.001 U	< 0.0005 U	--	--	--	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U
Benzo(a)pyrene	mg/kg	1.6E-05	SL-6	**0.025 J**	**0.0008 J**	< 0.0005 U	--	--	--	**0.00057**	< 0.0005 U	< 0.0005 U	< 0.0005 U
Benzo(b)fluoranthene	mg/kg	44	SL-9	< 0.05 U	**0.0021 J**	< 0.0005 U	--	--	--	**0.001**	< 0.0005 U	< 0.0005 U	< 0.0005 U
Benzo(j)fluoranthene	mg/kg			--	--	--	--	--	--	--	--	--	--
Benzo(j,k)fluoranthene	mg/kg			--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	mg/kg	71	SL-9	< 0.05 U	< 0.001 J	< 0.0005 U	--	--	--	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U
Chrysene	mg/kg	1.4	SL-8	**0.067**	**0.0013**	< 0.0005 U	--	--	--	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U
Dibenzo(a,h)anthracene	mg/kg	0.23	SL-8	< 0.05 U	< 0.001 J	< 0.0005 U	--	--	--	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.6	SL-8	< 0.05 U	**0.0012 J**	< 0.0005 U	--	--	--	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U
Total Benzofluoranthenes	mg/kg	1.1	SL-9	< 0.05 U	**0.0026 J**	< 0.0005 U	--	--	--	**0.00125**	< 0.0005 U	< 0.0005 U	< 0.0005 U
Total HPAHs (ND = 1/2 RDL)	mg/kg	1.1	SL-9	**0.292 J**	**0.0145 J**	**0.00325**	--	--	--	**0.00357**	< 0.0005 U	< 0.0005 U	< 0.0005 U
Total LPAHs (ND = 1/2 RDL)	mg/kg	5.2	SL-8	**0.18**	**0.0051**	**0.00245**	--	--	--	**0.0042**	< 0.005 U	< 0.005 U	< 0.005 U
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	1.6E-05	SL-6	**0.0382 J**	**0.00129 J**	< 0.000378 U	--	--	--	**0.000773**	< 0.000378 U	< 0.000378 U	< 0.000378 U
Semi-Volatile Organic Compounds (SVOCs)														
1,2-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	mg/kg	3.6E-05	SL-6	< 0.25 U	< 0.05 U	< 0.0025 U	--	--	--	< 0.0025 U	--	< 0.0025 U	< 0.0025 U
1,3-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--	--
1,4-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	mg/kg	2400	SL-1	--	--	--	--	--	--	--	--	--	--
2,3,5,6-Tetrachlorophenol	mg/kg			--	--	--	--	--	--	--	--	--	--
2,3-Dichloroaniline	mg/kg			--	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	mg/kg	1.1	SL-6	< 2.5 U	< 0.05 U	< 0.025 U	--	--	--	< 0.025 U	--	< 0.025 U	< 0.025 U
2,4,6-Trichlorophenol	mg/kg	0.00019	SL-6	< 2.5 U	< 0.05 U	< 0.025 U	--	--	--	< 0.025 U	--	< 0.025 U	< 0.025 U
2,4-Dichlorophenol	mg/kg	0.0043	SL-6	< 2.5 U	< 0.05 U	< 0.025 U	--	--	--	< 0.025 U	--	< 0.025 U	< 0.025 U
2,4-Dimethylphenol	mg/kg	0.0023	SL-7	< 2.5 U	< 0.05 U	< 0.025 U	--	--	--	< 0.025 U	--	< 0.025 U	< 0.025 U
2,4-Dinitrophenol	mg/kg	0.029	SL-6	< 7.5 U	< 0.15 U	< 0.075 U	--	--	--	< 0.075 U	--	< 0.075 U	< 0.075 U
2,4-Dinitrotoluene	mg/kg	0.00016	SL-6	< 1.2 U	< 0.025 U	< 0.012 U	--	--	--	< 0.012 U	--	< 0.012 U	< 0.012 U
2,6-Dinitrotoluene	mg/kg	0.67	SL-1	< 1.2 U	< 0.025 U	< 0.012 U	--	--	--	< 0.012 U	--	< 0.012 U	< 0.012 U
2-Chloronaphthalene	mg/kg	0.28	SL-6	< 0.25 U	< 0.005 U	< 0.0025 U	--	--	--	< 0.0025 U	--	< 0.0025 U	< 0.0025 U
2-Chlorophenol	mg/kg	0.011	SL-6	< 2.5 U	< 0.05 U	< 0.025 U	--	--	--	< 0.025 U	--	< 0.025 U	< 0.025 U
2-Methylphenol	mg/kg	0.0058	SL-7	< 2.5 U	< 0.05 U	< 0.025 U	--	--	--	< 0.025 U	--	< 0.025 U	< 0.025 U
2-Nitroaniline	mg/kg	800	SL-1	< 1.2 U	< 0.025 U	< 0.012 U	--	--	--	< 0.012 U	--	< 0.012 U	< 0.012 U
2-Nitrophenol	mg/kg			< 2.5 U	< 0.05 U	< 0.025 U	--	--	--	< 0.025 U	--	< 0.025 U	< 0.025 U
3 & 4 Methylphenol	mg/kg			< 5 U	< 0.1 U	< 0.05 U	--	--	--	< 0.05 U	--	< 0.05 U	< 0.05 U
3,3'-Dichlorobenzidine	mg/kg	1.1E-05	SL-6	< 2.5 U	< 0.5 U	< 0.025 U	--	--	--	< 0.025 U	--	< 0.025 U	< 0.025 U
3-Nitroaniline	mg/kg			< 25 U	< 0.5 U	< 0.25 U	--	--	--	< 0.25 U	--	< 0.25 U	< 0.25 U
4,6-Dinitro-2-methylphenol	mg/kg	0.0073	SL-6	< 7.5 U	< 0.15 U	< 0.075 U	--	--	--	< 0.075 U	--	< 0.075 U	< 0.075 U
4-Bromophenyl phenyl ether	mg/kg			< 0.25 U	< 0.005 U	< 0.0025 U	--	--	--	< 0.0025 U	--	< 0.0025 U	< 0.0025 U
4-Chloro-3-methylphenol	mg/kg	0.028	SL-6	< 2.5 U	< 0.05 U	< 0.025 U	--	--	--	< 0.025 U	--	< 0.025 U	< 0.025 U
4-Chloroaniline	mg/kg	5	SL-1	< 25 U	< 0.5 U	< 0.25 U	--	--	--	< 0.25 U	--	< 0.25 U	< 0.25 U
4-Chlorophenyl phenyl ether	mg/kg			< 0.25 U	< 0.005 U	< 0.0025 U	--	--	--	< 0.0025 U	--	< 0.0025 U	< 0.0025 U
4-Methylphenol	mg/kg	0.062	SL-7	< 5 U	< 0.1 U	< 0.05 U	--	--	--	< 0.05 U	--	< 0.05 U	--
4-Nitroaniline	mg/kg	22	SL-9	< 25 U	< 0.5 U	< 0.25 U	--	--	--	< 0.25 U	--	< 0.25 U	< 0.25 U
4-Nitrophenol	mg/kg			< 7.5 U	< 0.15 U	< 0.075 U	--	--	--	< 0.075 U	--	< 0.075 U	< 0.075 U
Aniline	mg/kg	180	SL-1	--	--	--	--	--	--	--	--	--	--
Benzidine	mg/kg	3.4E-08	SL-6	--	--	--	--	--	--	--	--	--	--
Benzoic acid	mg/kg	0.17	SL-7	< 12 U	< 0.25 U	< 0.12 U	--	--	--	< 0.12 U	--	< 0.12 U	< 0.12 U
Benzyl alcohol	mg/kg	0.017	SL-7	< 2.5 U	< 0.05 U	< 0.025 U	--	--	--	< 0.025 U	--	< 0.025 U	< 0.025 U
Benzyl butyl phthalate	mg/kg	0.00018	SL-6	< 2.5 U	< 0.05 U	< 0.025 U	--	--	--	< 0.025 U	--	< 0.025 U	< 0.025 U
Bis(2-chloro-1-methylethyl) ether	mg/kg	0.038	SL-6	< 0.25 U	< 0.005 U	< 0.0025 U	--	--	--	< 0.0025 U	--	< 0.0025 U	< 0.0025 U
Bis(2-chloroethoxy)methane	mg/kg	240	SL-1	< 0.25 U	< 0.005 U	< 0.0025 U	--	--	--	< 0.0025 U	--	< 0.0025 U	< 0.0025 U
Bis(2-chloroethyl) ether	mg/kg	2.2E-05	SL-6	< 0.25 U	< 0.005 U	< 0.0025 U	--	--	--	< 0.0025 U	--	< 0.0025 U	< 0.0025 U
bis(2-Chloroisopropyl)ether	mg/kg			--	--	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) adipate	mg/kg	830	SL-1	--	--	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate	mg/kg	0.0051	SL-6	< 4 U	< 0.08 U	< 0.04 U	--	--	--	< 0.04 U	--	< 0.04 U	< 0.04 U
Carbazole	mg/kg	79	SL-9	< 0.25 UJ	< 0.005 UJ	< 0.0025 UJ	--	--	--	< 0.0025 U	--	< 0.0025 U	< 0.0025 U
Dibenzofuran	mg/kg	0.029	SL-7	< 0.25 U	< 0.005 U	< 0.0025 U	--	--	--	< 0.0025 U	--	< 0.0025 U	< 0.0025 U
Diethyl phthalate	mg/kg	0.034	SL-7	< 2.5 U	< 0.05 U	< 0.025 U	--	--	--	< 0.025 U	--	< 0.025 U	< 0.025 U
Dimethyl phthalate	mg/kg	0.019	SL-7	< 2.5 U	< 0.05 U	< 0.025 U	--	--	--	< 0.025 U	--	< 0.025 U	< 0.025 U
Di-n-butyl phthalate	mg/kg	0.011	SL-9	< 2.5 U	< 0.05 U	< 0.025 U	--	--	--	< 0.025 U	--	< 0.025 U	< 0.025 U
Di-n-octyl phthalate	mg/kg	0.33	SL-7	< 2.5 U	< 0.05 U	< 0.025 U	--	--	--	< 0.025 U	--	< 0.025 U	< 0.025 U
Hexachlorobenzene	mg/kg	4E-07	SL-6	< 0.25 U	< 0.005 U	< 0.0025 U	--	--	--	< 0.0025 U	--	< 0.0025 U	< 0.0025 U
Hexachlorobutadiene	mg/kg	1.1E-05	SL-6	< 0.01 U	< 0.005 U	< 0.0025 U	--	--	--	< 0.0025 U	< 0.01 U	< 0.01 U	< 0.01 U
Hexachlorocyclopentadiene	mg/kg	0.0017	SL-6	< 0.75 U	< 0.015 U	< 0.0075 U	--	--	--	< 0.0075 U	--	< 0.0075 U	< 0.0075 U
Hexachloroethane	mg/kg	9.7E-06	SL-6	< 0.25 U	< 0.005 U	< 0.0025 U	--	--	--	< 0.0025 U	--	< 0.0025 U	< 0.0025 U
Isophorone	mg/kg	0.039	SL-6	< 0.25 U	< 0.005 U	< 0.0025 U	--	--	--	< 0.0025 U	--	< 0.0025 U	< 0.0025 U
Nitrobenzene	mg/kg	0.041	SL-6	< 0.25 U	< 0.005 U	< 0.0025 U	--	--	--	< 0.0025 U	--	< 0.0025 U	< 0.0025 U
N-Nitrosodimethylamine	mg/kg	0.00011	SL-6	< 0.25 U	< 0.005 U	< 0.0025 U	--	--	--	< 0.0025 U	--	< 0.0025 U	< 0.0025 U
N-Nitroso-di-n-propylamine	mg/kg	3.3E-05	SL-6	< 0.25 U	< 0.005 U	< 0.0025 U	--	--	--	< 0.0025 U	--	< 0.0025 U	< 0.0025 U
N-Nitrosodiphenylamine	mg/kg	0.0016	SL-7	< 0.25 U	< 0.005 U	< 0.0025 U	--	--	--	< 0.0025 UJ	--	< 0.0025 U	< 0.0025 U
Pentachlorophenol	mg/kg	1.8E-06	SL-6	< 1.2 U	< 0.025 U	< 0.012 U	--	--	--	< 0.012 U	--	< 0.012 U	< 0.012 U
Phenol	mg/kg	0.048	SL-7	< 2.5 U	< 0.05 U	< 0.025 U	--	--	--	< 0.025 U	--	< 0.025 U	< 0.025 U
Pyridine	mg/kg	80	SL-1	--	--	--	--	--	--	--	--	--	--

Table I.3.C. Saturated Soil Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL

				Location	MW-16	MW-16D					MW-17		MW-18	
				Date	09/23/22	09/22/22	09/22/22	09/22/22	09/23/22	09/23/22	09/16/22	09/16/22	09/13/22	09/13/22
				Sample	MW-16-5.5-6.5	MW-16D-10.5-11.5	MW-16D-17-18	MW-16D-19-20	MW-16D-24-25	MW-16D-29-30	MW-17-12-13	MW-17-16.25-17.25	MW-18-13-14	MW-18-FD-13-14
				Depth	5.5 - 6.5 ft	10.5 - 11.5 ft	17 - 18 ft	19 - 20 ft	24 - 35 ft	29 - 30 ft	12 - 13 ft	16.25 - 17.25 ft	13 - 14 ft	13 - 14 ft
				Geologic Unit	Fill	Tidal Flat	Alluvial	Alluvial	Till	Till	Fill	Alluvial	Alluvial	Alluvial
Analyte	Unit	Preliminary RI SL	Basis of SL											
Pesticides														
2,4'-DDD	mg/kg			--	--	--	--	--	--	--	--	--	--	
2,4'-DDE	mg/kg			--	--	--	--	--	--	--	--	--	--	
2,4'-DDT	mg/kg			--	--	--	--	--	--	--	--	--	--	
4,4'-DDD	mg/kg	3.6E-07	SL-6	< 0.1 U	< 0.2 U	< 0.001 U	--	--	--	< 0.001 UJ	--	< 0.001 U	< 0.001 U	
4,4'-DDE	mg/kg	7.6E-08	SL-6	< 0.1 U	< 0.2 U	< 0.001 U	--	--	--	< 0.001 UJ	--	< 0.001 U	< 0.001 U	
4,4'-DDT	mg/kg	8.1E-07	SL-6	< 0.1 U	< 0.2 U	< 0.001 U	--	--	--	< 0.001 UJ	--	< 0.001 U	< 0.001 U	
Aldrin	mg/kg	2E-09	SL-6	< 0.17 U	< 0.34 U	< 0.0017 U	--	--	--	< 0.0017 UJ	--	< 0.0017 U	< 0.0017 U	
Alpha-BHC	mg/kg	9.8E-08	SL-6	< 0.05 U	< 0.1 U	< 0.0005 U	--	--	--	< 0.0005 UJ	--	< 0.0005 U	< 0.0005 U	
Beta-BHC	mg/kg	3.4E-06	SL-6	< 0.05 U	< 0.1 U	< 0.0005 U	--	--	--	< 0.0005 UJ	--	< 0.0005 U	< 0.0005 U	
Chlordane	mg/kg	1.1E-06	SL-6	--	--	--	--	--	--	--	--	--	--	
cis-Chlordane	mg/kg	5.3E-06	SL-7	< 0.05 U	< 0.1 U	< 0.0005 U	--	--	--	< 0.0005 UJ	--	< 0.0005 U	< 0.0005 U	
cis-Nonachlor	mg/kg			--	--	--	--	--	--	--	--	--	--	
Delta-BHC	mg/kg	0.0048	SL-1	< 0.17 UJ	< 0.34 UJ	< 0.0017 UJ	--	--	--	< 0.0005 UJ	--	< 0.0005 U	< 0.0005 U	
Dieldrin	mg/kg	1.8E-09	SL-6	< 0.1 U	< 0.2 U	< 0.001 U	--	--	--	< 0.001 UJ	--	< 0.001 U	< 0.001 U	
Endosulfan I	mg/kg	6.1E-05	SL-6	< 0.05 U	< 0.1 U	< 0.0005 U	--	--	--	< 0.0005 UJ	--	< 0.0005 U	< 0.0005 U	
Endosulfan II	mg/kg	6.1E-05	SL-6	< 0.1 U	< 0.2 U	< 0.001 U	--	--	--	< 0.001 UJ	--	< 0.001 U	< 0.001 U	
Endosulfan Sulfate	mg/kg	0.1	SL-6	< 0.1 U	< 0.2 U	< 0.001 U	--	--	--	< 0.001 UJ	--	< 0.001 U	< 0.001 U	
Endrin	mg/kg	2.2E-05	SL-6	< 0.1 U	< 0.2 U	< 0.001 U	--	--	--	< 0.001 UJ	--	< 0.001 U	< 0.001 U	
Endrin Aldehyde	mg/kg	0.00012	SL-6	< 0.1 U	< 0.2 U	< 0.001 U	--	--	--	< 0.001 UJ	--	< 0.001 U	< 0.001 U	
Endrin ketone	mg/kg			< 0.1 U	< 0.2 U	< 0.001 U	--	--	--	< 0.001 UJ	--	< 0.001 U	< 0.001 U	
Heptachlor	mg/kg	3.3E-09	SL-6	< 0.05 U	< 0.1 U	< 0.0005 U	--	--	--	< 0.0005 UJ	--	< 0.0005 U	< 0.0005 U	
Heptachlor Epoxide	mg/kg	2.5E-08	SL-6	< 0.05 U	< 0.1 U	< 0.0005 U	--	--	--	< 0.0005 UJ	--	< 0.0005 U	< 0.0005 U	
Lindane	mg/kg	0.00021	SL-6	< 0.05 U	< 0.1 U	< 0.0005 U	--	--	--	< 0.0005 UJ	--	< 0.0005 U	< 0.0005 U	
Methoxychlor	mg/kg	0.0016	SL-6	< 0.5 U	< 1 U	< 0.005 U	--	--	--	< 0.005 UJ	--	< 0.005 U	< 0.005 U	
Mirex	mg/kg	0.00036	SL-6	--	--	--	--	--	--	--	--	--	--	
Oxychlordane	mg/kg			--	--	--	--	--	--	--	--	--	--	
Toxaphene	mg/kg	3.1E-06	SL-6	< 2.5 U	< 5 U	< 0.025 U	--	--	--	< 0.025 UJ	--	< 0.025 U	< 0.025 U	
trans-Chlordane	mg/kg	5.3E-06	SL-7	< 0.17 U	< 0.34 U	< 0.0017 U	--	--	--	< 0.0017 UJ	--	< 0.0017 U	< 0.0017 U	
trans-Nonachlor	mg/kg			--	--	--	--	--	--	--	--	--	--	
Total Petroleum Hydrocarbons (TPH)														
Gasoline Range Organics	mg/kg	30	SL-3	< 5 U	--	< 5 U	--	--	--	**2.5 J**	< 5 U	< 5 U	< 5 U	
Diesel Range Organics	mg/kg	2000	SL-9	**61**	--	< 10 U	--	--	--	< 10 U	< 10 U	< 10 U	< 10 U	
Motor Oil Range Organics	mg/kg	2000	SL-9	**570**	--	< 50 U	--	--	--	< 50 U	< 50 U	< 50 U	< 50 U	
Diesel and Oil Extended Range Organics	mg/kg	2000	SL-9	**631**	--	< 50 U	--	--	--	< 50 U	< 50 U	< 50 U	< 50 U	
Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)														
Benzene	mg/kg	0.00056	SL-6	< 0.001 U	< 0.001 U	< 0.001 U	--	--	--	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	
Toluene	mg/kg	0.044	SL-6	< 0.001 U	< 0.001 U	< 0.001 U	--	--	--	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	
Ethylbenzene	mg/kg	0.01	SL-6	< 0.001 U	< 0.001 U	< 0.001 U	--	--	--	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	
Total Xylenes	mg/kg	0.055	SL-6	< 0.002 U	**0.0014**	< 0.002 U	--	--	--	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	
Volatile Organic Compounds (VOCs)														
1,1,1,2-Tetrachloroethane	mg/kg	38	SL-1	< 0.05 U	< 0.05 U	< 0.05 U	--	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	
1,1,1-Trichloroethane	mg/kg	21	SL-6	< 0.002 U	< 0.002 U	< 0.002 U	--	--	--	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	
1,1,2 - Trichlorotrifluoroethane	mg/kg	2400000	SL-1	--	--	--	--	--	--	--	--	--	--	
1,1,2,2-Tetrachloroethane	mg/kg	0.00011	SL-6	< 0.05 U	< 0.05 U	< 0.05 U	--	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	
1,1,2-Trichloroethane	mg/kg	0.00033	SL-6	< 0.005 U	< 0.005 U	< 0.005 U	--	--	--	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	
1,1-Dichloroethane	mg/kg	180	SL-1	< 0.002 U	< 0.002 U	< 0.002 U	--	--	--	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	
1,1-Dichloroethene	mg/kg	1.4	SL-6	< 0.001 U	< 0.001 U	< 0.001 U	--	--	--	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	
1,1-Dichloropropene	mg/kg			< 0.05 U	< 0.05 U	< 0.05 U	--	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	
1,2,3-Trichlorobenzene	mg/kg	64	SL-9	< 0.25 U	< 0.25 U	< 0.25 U	--	--	--	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	
1,2,3-Trichloropropane	mg/kg	0.0063	SL-1	< 0.05 U	< 0.05 U	< 0.05 U	--	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	
1,2,4-Trichlorobenzene	mg/kg	7.2E-05	SL-6	< 0.01 U	< 0.005 U	< 0.0025 U	--	--	--	< 0.01 U	< 0.01 U	< 0.01 U	< 0.0025 U	
1,2,4-Trimethylbenzene	mg/kg	800	SL-1	< 0.05 U	< 0.05 U	< 0.05 U	--	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	
1,2-Dibromo-3-chloropropane	mg/kg	0.23	SL-1	< 0.5 U	< 0.5 U	< 0.5 U	--	--	--	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	
1,2-Dibromoethane (EDB)	mg/kg	0.5	SL-1	< 0.005 U	< 0.005 U	< 0.005 U	--	--	--	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	
1,2-Dichlorobenzene	mg/kg	0.003	SL-7	< 0.05 U	< 0.005 U	< 0.0025 U	--	--	--	< 0.0025 U	< 0.05 U	< 0.05 U	< 0.05 U	
1,2-Dichloroethane (EDC)	mg/kg	0.024	SL-6	< 0.002 U	< 0.002 U	< 0.002 U	--	--	--	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	
1,2-Dichloropropane	mg/kg	0.001	SL-6	< 0.05 U	< 0.05 U	< 0.05 U	--	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	
1,3,5-Trimethylbenzene	mg/kg	800	SL-1	< 0.05 U	< 0.05 U	< 0.05 U	--	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	
1,3-Dichlorobenzene	mg/kg	0.0013	SL-6	< 0.25 U	< 0.005 U	< 0.0025 U	--	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	
1,3-Dichloropropane	mg/kg	0.00043	SL-6	< 0.05 U	< 0.05 U	< 0.05 U	--	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	
1,4-Dichloro-2-Butene	mg/kg			--	--	--	--	--	--	--	--	--	--	
1,4-Dichlorobenzene	mg/kg	0.0081	SL-7	< 0.05 U	< 0.005 U	< 0.0025 U	--	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.0025 U	
2,2-Dichloropropane	mg/kg			< 0.05 U	< 0.05 U	< 0.05 U	--	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	
2-Butanone	mg/kg	350	SL-9	< 1 U	< 1 U	< 1 U	--	--	--	< 1 U	< 1 U	< 1 U	< 1 U	
2-Chloroethyl Vinyl Ether	mg/kg			--	--	--	--	--	--	--	--	--	--	
2-Chlorotoluene	mg/kg	1600	SL-1	< 0.05 U	< 0.05 U	< 0.05 U	--	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	
2-Hexanone	mg/kg	400	SL-1	< 0.5 U	< 0.5 U	< 0.5 U	--	--	--	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	
2-Pentanone	mg/kg			--	--	--	--	--	--	--	--	--	--	
4-Chlorotoluene	mg/kg	1600	SL-1	< 0.05 U	< 0.05 U	< 0.05 U	--	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	
4-Methyl-2-pentanone	mg/kg	6400	SL-1	< 1 U	< 1 U	< 1 U	--	--	--	< 1 U	< 1 U	< 1 U	< 1 U	
Acetone	mg/kg	1.2	SL-9	< 5 U	< 5 U	< 5 U	--	--	--	< 5 U	< 5 U	< 5 U	< 5 U	
Acrolein	mg/kg	0.00032	SL-6	--	--	--	--	--	--	--	--	--	--	
Acrylonitrile	mg/kg	8.3E-06	SL-6	--	--	--	--	--	--	--	--	--	--	
Bromobenzene	mg/kg	640	SL-1	< 0.05 U	< 0.05 U	< 0.05 U	--	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	
Bromochloromethane	mg/kg			--	--	--	--	--	--	--	--	--	--	
Bromodichloromethane	mg/kg	0.00089	SL-6	< 0.005 U	< 0.005 U	< 0.005 U	--	--	--	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	
Bromoform	mg/kg	0.005	SL-6	< 0.05 U	< 0.05 U	< 0.05 U	--	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	
Bromomethane	mg/kg	0.079	SL-6	< 0.1 U	< 0.1 U	< 0.1 U	--	--	--	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	
Carbon Disulfide	mg/kg	0.81	SL-9	--	--	--	--	--	--	--	--	--	--	
Carbon Tetrachloride	mg/kg	0.00015	SL-6	< 0.005 U	< 0.005 U	< 0.005 U	--	--	--	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	
Chlorobenzene	mg/kg	0.1	SL-6	< 0.05 U	< 0.05 U	< 0.05 U	--	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	
Chloroethane	mg/kg			< 0.1 U	< 0.1 U	< 0.1 U	--	--	--	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	
Chloroform	mg/kg	0.052	SL-6	< 0.05 U	< 0.05 U	< 0.05 U	--	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	
Chloromethane	mg/kg			< 0.5 U	< 0.5 U	< 0.5 U	--	--	--	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	
cis-1,2-Dichloroethene (DCE)	mg/kg	24	SL-9	< 0.001 U	< 0.001 U	< 0.001 U	--	--	--	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	
cis-1,3-Dichloropropene	mg/kg	0.00038	SL-6	< 0.01 U	< 0.01 U	< 0.01 U	--	--	--	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	
Dibromochloromethane	mg/kg	0.00070	SL-6	< 0.01 U	< 0.01 U	< 0.01 U	--	--	--	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	
Dibromomethane	mg/kg	800	SL-1	< 0.05 U	< 0.05 U	< 0.05 U	--	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	
Dichlorodifluoromethane	mg/kg	16000	SL-1	< 0.5 U	< 0.5 U	< 0.5 U	--	--	--	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	
Isopropylbenzene	mg/kg	8000	SL-1	< 0.05 U	< 0.05 U	< 0.05 U	--	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	
m,p-Xylenes	mg/kg			< 0.002 U	< 0.002 U	< 0.002 U	--	--	--	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	
Methyl tert-butyl ether (MTBE)	mg/kg	560	SL-1	< 0.001 U	< 0.001 U	< 0.001 U	--	--	--	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	
Methylene Chloride	mg/kg	0.030	SL-6	< 0.2 U	R	R	--	--	--	R	R	< 0.2 U	< 0.2 U	
Methyliodide	mg/kg			--	--	--	--	--	--	--	--	--	--	
n-Butylbenzene	mg/kg	4000	SL-1	--	--	--	--	--	--	--	--	--	--	
n-Hexane	mg/kg	4800	SL-1	< 0.25 U	< 0.25 U	< 0.25 U	--	--	--	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	
n-Propylbenzene	mg/kg	8000	SL-1	< 0.05 U	< 0.05 U	< 0.05 U	--	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	
o-Xylene	mg/kg			< 0.001 U	**0.0014**	< 0.001 U	--	--	--	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	
p-Isopropyltoluene	mg/kg	320	SL-1	< 0.05 U	< 0.05 U	< 0.05 U	--	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	
sec-Butylbenzene	mg/kg	8000	SL-1	< 0.05 U	< 0.05 U	< 0.05 U	--	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	
Styrene	mg/kg	4.7	SL-9	< 0.05 U	< 0.05 U	< 0.05 U	--	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	
tert-Butylbenzene	mg/kg	8000	SL-1	< 0.05 U	< 0.05 U	< 0.05 U	--	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	
Tetrachloroethene (PCE)	mg/kg	0.0016	SL-6	**0.0029**	< 0.001 U	< 0.001 U	--	--	--	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	
trans-1,2-Dichloroethene	mg/kg	0.32	SL-6	< 0.002 U	< 0.002 U	< 0.002 U	--	--	--	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	
trans-1,3-Dichloropropene	mg/kg	0.00038	SL-6	< 0.01 U	< 0.01 U	< 0.01 U	--	--	--	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	
Trichloroethene (TCE)	mg/kg	0.00027	SL-6	< 0.001 U	< 0.001 U	< 0.001 U	--	--	--	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	
Trichlorofluoromethane	mg/kg	24000	SL-1	< 0.5 U	< 0.5 U	< 0.5 U	--	--	--	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	
Vinyl Acetate	mg/kg	80000	SL-1	--	--	--	--	--	--	--	--	--	--	
Vinyl Chloride	mg/kg	5.6E-05	SL-6	< 0.001 U	< 0.001 U	< 0.001 U	--	--	--	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	
Conventionals														
Total Organic Carbon	%			--	--	--	--	--	--	--	--	--	--	
Total Solids	%			--	--	--	--	--	--	--	--	--	--	

Table I.3.C. Saturated Soil Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL

				Location	MW-18D		MW-19D			MW-20			MW-21	
				Date	09/12/22	09/12/22	09/16/22	09/16/22	09/16/22	09/14/22	09/14/22	09/14/22	09/14/22	09/14/22
				Sample	MW-18D-15-16	MW-18D-24-24.5	MW-19D-6-7	MW-19D-10-11-TIG	MW-19D-15-16	MW-20-11-12	MW-20-12.5-13.5	MW-20-18.5-19.5	MW-21-10.5-11.5	MW-21-18.5-19.5
				Depth	15 - 16 ft	24 - 24.5 ft	6 - 7 ft	10 - 11 ft	15 - 16 ft	11 - 12 ft	12.5 - 13.5 ft	18.5 - 19.5 ft	10.5 - 11.5 ft	18.5 - 19.5 ft
				Geologic Unit	Alluvial	Till	Fill	Alluvial	Alluvial	Fill	Fill	Alluvial	Fill	Alluvial
Analyte	Unit	Preliminary RI SL	Basis of SL											
Metals, Total														
Arsenic	mg/kg	7.3	SL-10	**0.943**	--	**2.61**	--	**1.2**	--	--	--	--	--	
Barium	mg/kg	250	SL-10	--	--	--	--	--	--	--	--	--	--	
Cadmium	mg/kg	0.77	SL-10	< 0.2 U	--	< 0.2 U	--	< 0.2 U	--	--	--	--	--	
Chromium	mg/kg	67	SL-9	**7.41**	--	**7.19**	--	**6.67**	--	--	--	--	--	
Copper	mg/kg	36	SL-10	**8.35**	--	**11.4**	--	**8.32**	--	--	--	--	--	
Lead	mg/kg	81	SL-6	**1.1**	--	**2.17**	--	**2.08**	--	--	--	--	--	
Mercury	mg/kg	0.07	SL-10	**0.026**	--	< 0.025 U	--	< 0.025 U	--	--	--	--	--	
Nickel	mg/kg	48	SL-10	**5.05**	--	**5.35**	--	**5.74**	--	--	--	--	--	
Selenium	mg/kg	0.78	SL-10	--	--	--	--	--	--	--	--	--	--	
Silver	mg/kg	0.61	SL-10	--	--	--	--	--	--	--	--	--	--	
Zinc	mg/kg	85	SL-10	**17.2**	--	**15.5**	--	**15.4**	--	--	--	--	--	
Butyl Tins														
Dibutyltin Ion	mg/kg			< 0.00526 U	--	< 0.00563 U	--	< 0.0057 U	--	--	--	--	--	
Monobutyltin	mg/kg			< 0.00371 U	--	< 0.00397 U	--	< 0.00402 U	--	--	--	--	--	
Tetrabutyltin	mg/kg			< 0.00455 U	--	< 0.00487 U	--	< 0.00493 U	--	--	--	--	--	
Tributyltin Ion	mg/kg	0.00011	SL-7	< 0.00351 U	--	< 0.00376 U	--	< 0.00381 U	--	--	--	--	--	
Polychlorinated Biphenyl (PCB) Aroclors														
Total PCB Aroclors (ND = 0)	mg/kg	5.5E-07	SL-6	< 0.004 U	--	< 0.004 U	--	< 0.004 U	< 0.004 U	--	--	< 0.004 U	--	
Polychlorinated Biphenyl (PCB) Congeners														
Total PCB Congeners (ND = 0)	mg/kg	5.5E-07	SL-6	--	--	--	**6.53E-05 J**	--	--	--	--	--	--	
Total PCB TEQ (ND = 0)	mg/kg	3.5E-10	SL-6	--	--	--	< 2.44E-06 U	--	--	--	--	--	--	
Dioxins/Furans														
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	5.2E-06	SL-10	--	--	--	--	--	--	--	--	--	--	
2,3,7,8-TCDD	mg/kg	5.2E-06	SL-10	--	--	--	--	--	--	--	--	--	--	
Polycyclic Aromatic Hydrocarbons (PAHs)														
1-Methylnaphthalene	mg/kg	20	SL-1	< 0.0005 U	--	< 0.0005 U	--	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	--	
2-Methylnaphthalene	mg/kg	0.039	SL-7	< 0.0005 U	--	< 0.0005 U	--	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	**0.00053**	--	
Acenaphthene	mg/kg	0.028	SL-7	< 0.0005 U	--	< 0.0005 U	--	< 0.0005 U	< 0.0005 U	< 0.0005 UJ	< 0.0005 U	< 0.0005 U	--	
Acenaphthylene	mg/kg	1.3	SL-8	< 0.0005 U	--	< 0.0005 U	--	< 0.0005 U	< 0.0005 U	< 0.0005 UJ	< 0.0005 U	< 0.0005 U	--	
Anthracene	mg/kg	0.051	SL-7	< 0.0005 U	--	< 0.0005 U	--	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	--	
Benzo(g,h,i)perylene	mg/kg	0.67	SL-8	< 0.0005 U	--	< 0.0005 U	--	< 0.0005 U	**0.00065**	< 0.0005 U	< 0.0005 U	< 0.0005 U	--	
Fluoranthene	mg/kg	0.09	SL-7	< 0.0005 U	--	**0.00068**	--	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	--	
Fluorene	mg/kg	0.029	SL-7	< 0.0005 U	--	< 0.0005 U	--	< 0.0005 U	< 0.0005 U	< 0.0005 UJ	< 0.0005 U	< 0.0005 U	--	
Naphthalene	mg/kg	0.0021	SL-6	< 0.005 U	--	< 0.005 U	--	< 0.0005 U	< 0.005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.005 U	
Phenanthrene	mg/kg	1.5	SL-8	< 0.0005 U	--	< 0.0005 U	--	< 0.0005 U	< 0.0005 U	< 0.0005 U	**0.0007**	< 0.0005 U	--	
Pyrene	mg/kg	0.14	SL-7	< 0.0005 U	--	**0.00085**	--	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	--	
Benz(a)anthracene	mg/kg	0.73	SL-9	< 0.0005 U	--	< 0.0005 U	--	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	--	
Benzo(a)pyrene	mg/kg	1.6E-05	SL-6	< 0.0005 U	--	< 0.0005 U	--	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	--	
Benzo(b)fluoranthene	mg/kg	44	SL-9	< 0.0005 U	--	< 0.0005 U	--	< 0.0005 U	**0.00076**	< 0.0005 U	< 0.0005 U	< 0.0005 U	--	
Benzo(j)fluoranthene	mg/kg			--	--	--	--	--	--	--	--	--	--	
Benzo(j,k)fluoranthene	mg/kg			--	--	--	--	--	--	--	--	--	--	
Benzo(k)fluoranthene	mg/kg	71	SL-9	< 0.0005 U	--	< 0.0005 U	--	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	--	
Chrysene	mg/kg	1.4	SL-8	< 0.0005 U	--	< 0.0005 U	--	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	--	
Dibenzo(a,h)anthracene	mg/kg	0.23	SL-8	< 0.0005 U	--	< 0.0005 U	--	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	--	
Indeno(1,2,3-cd)pyrene	mg/kg	0.6	SL-8	< 0.0005 U	--	< 0.0005 U	--	< 0.0005 U	**0.00067**	< 0.0005 U	< 0.0005 U	< 0.0005 U	--	
Total Benzofluoranthenes	mg/kg	1.1	SL-9	< 0.0005 U	--	< 0.0005 U	--	< 0.0005 U	**0.00101**	< 0.0005 U	< 0.0005 U	< 0.0005 U	--	
Total HPAHs (ND = 1/2 RDL)	mg/kg	1.1	SL-9	< 0.0005 U	--	**0.00353**	--	< 0.0005 U	**0.00383**	< 0.0005 U	< 0.0005 U	< 0.0005 U	--	
Total LPAHs (ND = 1/2 RDL)	mg/kg	5.2	SL-8	< 0.005 U	--	< 0.005 U	--	< 0.0005 U	< 0.005 U	< 0.0005 UJ	**0.00195**	< 0.0005 U	--	
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	1.6E-05	SL-6	< 0.000378 U	--	< 0.000378 U	--	< 0.000378 U	**0.000471**	< 0.000378 U	< 0.000378 U	< 0.000378 U	--	
Semi-Volatile Organic Compounds (SVOCs)														
1,2-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--	--	
1,2-Diphenylhydrazine	mg/kg	3.6E-05	SL-6	< 0.0025 U	--	< 0.0025 U	--	< 0.0025 U	--	--	--	--	--	
1,3-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--	--	
1,4-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--	--	
2,3,4,6-Tetrachlorophenol	mg/kg	2400	SL-1	--	--	--	--	--	--	--	--	--	--	
2,3,5,6-Tetrachlorophenol	mg/kg			--	--	--	--	--	--	--	--	--	--	
2,3-Dichloroaniline	mg/kg			--	--	--	--	--	--	--	--	--	--	
2,4,5-Trichlorophenol	mg/kg	1.1	SL-6	< 0.025 U	--	< 0.025 U	--	< 0.025 U	--	--	--	--	--	
2,4,6-Trichlorophenol	mg/kg	0.00019	SL-6	< 0.025 U	--	< 0.025 U	--	< 0.025 U	--	--	--	--	--	
2,4-Dichlorophenol	mg/kg	0.0043	SL-6	< 0.025 U	--	< 0.025 U	--	< 0.025 U	--	--	--	--	--	
2,4-Dimethylphenol	mg/kg	0.0023	SL-7	< 0.025 U	--	< 0.025 U	--	< 0.025 U	--	--	--	--	--	
2,4-Dinitrophenol	mg/kg	0.029	SL-6	< 0.075 U	--	< 0.075 U	--	< 0.075 U	--	--	--	--	--	
2,4-Dinitrotoluene	mg/kg	0.00016	SL-6	< 0.012 U	--	< 0.012 U	--	< 0.012 U	--	--	--	--	--	
2,6-Dinitrotoluene	mg/kg	0.67	SL-1	< 0.012 U	--	< 0.012 U	--	< 0.012 U	--	--	--	--	--	
2-Chloronaphthalene	mg/kg	0.28	SL-6	< 0.0025 U	--	< 0.0025 U	--	< 0.0025 U	--	--	--	--	--	
2-Chlorophenol	mg/kg	0.011	SL-6	< 0.025 U	--	< 0.025 U	--	< 0.025 U	--	--	--	--	--	
2-Methylphenol	mg/kg	0.0058	SL-7	< 0.025 U	--	< 0.025 U	--	< 0.025 U	--	--	--	--	--	
2-Nitroaniline	mg/kg	800	SL-1	< 0.012 U	--	< 0.012 U	--	< 0.012 U	--	--	--	--	--	
2-Nitrophenol	mg/kg			< 0.025 U	--	< 0.025 U	--	< 0.025 U	--	--	--	--	--	
3 & 4 Methylphenol	mg/kg			< 0.05 U	--	< 0.05 U	--	< 0.05 U	--	--	--	--	--	
3,3'-Dichlorobenzidine	mg/kg	1.1E-05	SL-6	< 0.025 U	--	< 0.025 U	--	< 0.025 U	--	--	--	--	--	
3-Nitroaniline	mg/kg			< 0.25 U	--	< 0.25 U	--	< 0.25 U	--	--	--	--	--	
4,6-Dinitro-2-methylphenol	mg/kg	0.0073	SL-6	< 0.075 U	--	< 0.075 U	--	< 0.075 U	--	--	--	--	--	
4-Bromophenyl phenyl ether	mg/kg			< 0.0025 U	--	< 0.0025 U	--	< 0.0025 U	--	--	--	--	--	
4-Chloro-3-methylphenol	mg/kg	0.028	SL-6	< 0.025 U	--	< 0.025 U	--	< 0.025 U	--	--	--	--	--	
4-Chloroaniline	mg/kg	5	SL-1	< 0.25 U	--	< 0.25 U	--	< 0.25 U	--	--	--	--	--	
4-Chlorophenyl phenyl ether	mg/kg			< 0.0025 U	--	< 0.0025 U	--	< 0.0025 U	--	--	--	--	--	
4-Methylphenol	mg/kg	0.062	SL-7	< 0.05 U	--	< 0.05 U	--	< 0.05 U	--	--	--	--	--	
4-Nitroaniline	mg/kg	22	SL-9	< 0.25 U	--	< 0.25 U	--	< 0.25 U	--	--	--	--	--	
4-Nitrophenol	mg/kg			< 0.075 U	--	< 0.075 U	--	< 0.075 U	--	--	--	--	--	
Aniline	mg/kg	180	SL-1	--	--	--	--	--	--	--	--	--	--	
Benzidine	mg/kg	3.4E-08	SL-6	--	--	--	--	--	--	--	--	--	--	
Benzoic acid	mg/kg	0.17	SL-7	< 0.12 U	--	< 0.12 U	--	< 0.12 U	--	--	--	--	--	
Benzyl alcohol	mg/kg	0.017	SL-7	< 0.025 U	--	< 0.025 U	--	< 0.025 U	--	--	--	--	--	
Benzyl butyl phthalate	mg/kg	0.00018	SL-6	< 0.025 U	--	< 0.025 U	--	< 0.025 U	--	--	--	--	--	
Bis(2-chloro-1-methylethyl) ether	mg/kg	0.038	SL-6	< 0.0025 U	--	< 0.0025 U	--	< 0.0025 U	--	--	--	--	--	
Bis(2-chloroethoxy)methane	mg/kg	240	SL-1	< 0.0025 U	--	< 0.0025 U	--	< 0.0025 U	--	--	--	--	--	
Bis(2-chloroethyl) ether	mg/kg	2.2E-05	SL-6	< 0.0025 U	--	< 0.0025 U	--	< 0.0025 U	--	--	--	--	--	
bis(2-Chloroisopropyl)ether	mg/kg			--	--	--	--	--	--	--	--	--	--	
Bis(2-ethylhexyl) adipate	mg/kg	830	SL-1	--	--	--	--	--	--	--	--	--	--	
Bis(2-ethylhexyl) phthalate	mg/kg	0.0051	SL-6	< 0.04 U	--	< 0.04 U	--	< 0.04 U	--	--	--	--	--	
Carbazole	mg/kg	79	SL-9	< 0.0025 U	--	< 0.0025 U	--	< 0.0025 U	--	--	--	--	--	
Dibenzofuran	mg/kg	0.029	SL-7	< 0.0025 U	--	< 0.0025 U	--	< 0.0025 U	--	--	--	--	--	
Diethyl phthalate	mg/kg	0.034	SL-7	< 0.025 U	--	< 0.025 U	--	< 0.025 U	--	--	--	--	--	
Dimethyl phthalate	mg/kg	0.019	SL-7	< 0.025 U	--	< 0.025 U	--	< 0.025 U	--	--	--	--	--	
Di-n-butyl phthalate	mg/kg	0.011	SL-9	< 0.025 U	--	< 0.025 U	--	< 0.025 U	--	--	--	--	--	
Di-n-octyl phthalate	mg/kg	0.33	SL-7	< 0.025 U	--	< 0.025 U	--	< 0.025 U	--	--	--	--	--	
Hexachlorobenzene	mg/kg	4E-07	SL-6	< 0.0025 U	--	< 0.0025 U	--	< 0.0025 U	--	--	--	--	--	
Hexachlorobutadiene	mg/kg	1.1E-05	SL-6	< 0.01 U	--	< 0.01 U	--	< 0.0025 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	
Hexachlorocyclopentadiene	mg/kg	0.0017	SL-6	< 0.0075 U	--	< 0.0075 U	--	< 0.0075 U	--	--	--	--	--	
Hexachloroethane	mg/kg	9.7E-06	SL-6	< 0.0025 U	--	< 0.0025 U	--	< 0.0025 U	--	--	--	--	--	
Isophorone	mg/kg	0.039	SL-6	< 0.0025 U	--	< 0.0025 U	--	< 0.0025 U	--	--	--	--	--	
Nitrobenzene	mg/kg	0.041	SL-6	< 0.0025 U	--	< 0.0025 U	--	< 0.0025 U	--	--	--	--	--	
N-Nitrosodimethylamine	mg/kg	0.00011	SL-6	< 0.0025 U	--	< 0.0025 U	--	< 0.0025 U	--	--	--	--	--	
N-Nitroso-di-n-propylamine	mg/kg	3.3E-05	SL-6	< 0.0025 U	--	< 0.0025 U	--	< 0.0025 U	--	--	--	--	--	
N-Nitrosodiphenylamine	mg/kg	0.0016	SL-7	< 0.0025 U	--	< 0.0025 UJ	--	< 0.0025 UJ	--	--	--	--	--	
Pentachlorophenol	mg/kg	1.8E-06	SL-6	< 0.012 U	--	< 0.012 U	--	< 0.012 U	--	--	--	--	--	
Phenol	mg/kg	0.048	SL-7	< 0.025 U	--	< 0.025 U	--	< 0.025 U	--	--	--	--	--	
Pyridine	mg/kg	80	SL-1	--	--	--	--	--	--	--	--	--	--	

Table I.3.C. Saturated Soil Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL

				Location	MW-18D		MW-19D			MW-20			MW-21	
				Date	09/12/22	09/12/22	09/16/22	09/16/22	09/16/22	09/14/22	09/14/22	09/14/22	09/14/22	09/14/22
				Sample	MW-18D-15-16	MW-18D-24-24.5	MW-19D-6-7	MW-19D-10-11-TIG	MW-19D-15-16	MW-20-11-12	MW-20-12.5-13.5	MW-20-18.5-19.5	MW-21-10.5-11.5	MW-21-18.5-19.5
				Depth	15 - 16 ft	24 - 24.5 ft	6 - 7 ft	10 - 11 ft	15 - 16 ft	11 - 12 ft	12.5 - 13.5 ft	18.5 - 19.5 ft	10.5 - 11.5 ft	18.5 - 19.5 ft
				Geologic Unit	Alluvial	Till	Fill	Alluvial	Alluvial	Fill	Fill	Alluvial	Fill	Alluvial
Analyte	Unit	Preliminary RI SL	Basis of SL											
Pesticides														
2,4'-DDD	mg/kg			--	--	--	--	--	--	--	--	--	--	--
2,4'-DDE	mg/kg			--	--	--	--	--	--	--	--	--	--	--
2,4'-DDT	mg/kg			--	--	--	--	--	--	--	--	--	--	--
4,4'-DDD	mg/kg	3.6E-07	SL-6	< 0.001 U	< 0.001 U	< 0.001 U	--	< 0.001 U	--	--	--	--	--	--
4,4'-DDE	mg/kg	7.6E-08	SL-6	< 0.001 U	< 0.001 U	< 0.001 U	--	< 0.001 U	--	--	--	--	--	--
4,4'-DDT	mg/kg	8.1E-07	SL-6	< 0.001 U	< 0.001 U	< 0.001 U	--	< 0.001 U	--	--	--	--	--	--
Aldrin	mg/kg	2E-09	SL-6	< 0.0017 UJ	< 0.0017 U	< 0.0017 U	--	< 0.0017 U	--	--	--	--	--	--
Alpha-BHC	mg/kg	9.8E-08	SL-6	< 0.0005 U	**0.00073**	< 0.0005 U	--	< 0.0005 U	--	--	--	--	--	--
Beta-BHC	mg/kg	3.4E-06	SL-6	< 0.0005 U	< 0.0005 U	< 0.0005 U	--	< 0.0005 U	--	--	--	--	--	--
Chlordane	mg/kg	1.1E-06	SL-6	--	--	--	--	--	--	--	--	--	--	--
cis-Chlordane	mg/kg	5.3E-06	SL-7	< 0.0005 U	< 0.0005 U	< 0.0005 U	--	< 0.0005 U	--	--	--	--	--	--
cis-Nonachlor	mg/kg			--	--	--	--	--	--	--	--	--	--	--
Delta-BHC	mg/kg	0.0048	SL-1	< 0.0005 U	< 0.0005 U	< 0.0005 U	--	< 0.0005 U	--	--	--	--	--	--
Dieldrin	mg/kg	1.8E-09	SL-6	< 0.001 U	< 0.001 U	< 0.001 U	--	< 0.001 U	--	--	--	--	--	--
Endosulfan I	mg/kg	6.1E-05	SL-6	< 0.0005 U	< 0.0005 U	< 0.0005 U	--	< 0.0005 U	--	--	--	--	--	--
Endosulfan II	mg/kg	6.1E-05	SL-6	< 0.001 U	< 0.001 U	< 0.001 U	--	< 0.001 U	--	--	--	--	--	--
Endosulfan Sulfate	mg/kg	0.1	SL-6	< 0.001 U	< 0.001 U	< 0.001 U	--	< 0.001 U	--	--	--	--	--	--
Endrin	mg/kg	2.2E-05	SL-6	< 0.001 U	< 0.001 U	< 0.001 U	--	< 0.001 U	--	--	--	--	--	--
Endrin Aldehyde	mg/kg	0.00012	SL-6	< 0.001 U	< 0.001 U	< 0.001 U	--	< 0.001 U	--	--	--	--	--	--
Endrin ketone	mg/kg			< 0.001 U	< 0.001 U	< 0.001 U	--	< 0.001 U	--	--	--	--	--	--
Heptachlor	mg/kg	3.3E-09	SL-6	< 0.0005 U	< 0.0005 U	< 0.0005 U	--	< 0.0005 U	--	--	--	--	--	--
Heptachlor Epoxide	mg/kg	2.5E-08	SL-6	< 0.0005 U	**0.00077 J**	< 0.0005 U	--	< 0.0005 U	--	--	--	--	--	--
Lindane	mg/kg	0.00021	SL-6	< 0.0005 U	< 0.0005 U	< 0.0005 U	--	< 0.0005 U	--	--	--	--	--	--
Methoxychlor	mg/kg	0.0016	SL-6	< 0.005 U	< 0.005 U	< 0.005 U	--	< 0.005 U	--	--	--	--	--	--
Mirex	mg/kg	0.00036	SL-6	--	--	--	--	--	--	--	--	--	--	--
Oxychlordane	mg/kg			--	--	--	--	--	--	--	--	--	--	--
Toxaphene	mg/kg	3.1E-06	SL-6	< 0.025 U	< 0.025 U	< 0.025 U	--	< 0.025 U	--	--	--	--	--	--
trans-Chlordane	mg/kg	5.3E-06	SL-7	< 0.0017 U	< 0.0017 U	< 0.0017 U	--	< 0.0017 U	--	--	--	--	--	--
trans-Nonachlor	mg/kg			--	--	--	--	--	--	--	--	--	--	--
Total Petroleum Hydrocarbons (TPH)														
Gasoline Range Organics	mg/kg	30	SL-3	**2.1 J**	--	**2.1 J**	--	< 5 U	R	--	--	R	--	
Diesel Range Organics	mg/kg	2000	SL-9	< 10 U	--	< 5 UJ	--	< 5 UJ	< 5 UJ	--	--	< 5 UJ	--	
Motor Oil Range Organics	mg/kg	2000	SL-9	< 50 U	--	< 25 U	--	< 25 U	< 25 U	--	--	< 25 U	--	
Diesel and Oil Extended Range Organics	mg/kg	2000	SL-9	< 50 U	--	< 25 UJ	--	< 25 UJ	< 25 UJ	--	--	< 25 UJ	--	
Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)														
Benzene	mg/kg	0.00056	SL-6	< 0.001 U	--	< 0.001 U	--	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U
Toluene	mg/kg	0.044	SL-6	< 0.002 U	--	< 0.002 U	--	< 0.002 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U
Ethylbenzene	mg/kg	0.01	SL-6	< 0.001 U	--	< 0.001 U	--	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U
Total Xylenes	mg/kg	0.055	SL-6	< 0.002 U	--	< 0.002 U	--	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U
Volatile Organic Compounds (VOCs)														
1,1,1,2-Tetrachloroethane	mg/kg	38	SL-1	< 0.05 U	--	< 0.05 U	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
1,1,1-Trichloroethane	mg/kg	21	SL-6	< 0.002 U	--	< 0.002 U	--	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U
1,1,2 - Trichlorotrifluoroethane	mg/kg	2400000	SL-1	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	0.00011	SL-6	< 0.05 U	--	< 0.05 U	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
1,1,2-Trichloroethane	mg/kg	0.00033	SL-6	< 0.005 U	--	< 0.005 U	--	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U
1,1-Dichloroethane	mg/kg	180	SL-1	< 0.002 U	--	< 0.002 U	--	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U
1,1-Dichloroethene	mg/kg	1.4	SL-6	< 0.001 U	--	< 0.001 U	--	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U
1,1-Dichloropropene	mg/kg			< 0.05 U	--	< 0.05 U	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
1,2,3-Trichlorobenzene	mg/kg	64	SL-9	< 0.25 U	--	< 0.25 U	--	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U
1,2,3-Trichloropropane	mg/kg	0.0063	SL-1	< 0.05 U	--	< 0.05 U	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
1,2,4-Trichlorobenzene	mg/kg	7.2E-05	SL-6	< 0.0025 U	--	< 0.0025 U	--	< 0.0025 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
1,2,4-Trimethylbenzene	mg/kg	800	SL-1	< 0.05 U	--	< 0.05 U	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
1,2-Dibromo-3-chloropropane	mg/kg	0.23	SL-1	< 0.5 U	--	< 0.5 U	--	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2-Dibromoethane (EDB)	mg/kg	0.5	SL-1	< 0.005 U	--	< 0.005 U	--	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U
1,2-Dichlorobenzene	mg/kg	0.003	SL-7	< 0.05 U	--	< 0.05 U	--	< 0.0025 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
1,2-Dichloroethane (EDC)	mg/kg	0.024	SL-6	< 0.002 U	--	< 0.002 U	--	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U
1,2-Dichloropropane	mg/kg	0.001	SL-6	< 0.05 U	--	< 0.05 U	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
1,3,5-Trimethylbenzene	mg/kg	800	SL-1	< 0.05 U	--	< 0.05 U	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
1,3-Dichlorobenzene	mg/kg	0.0013	SL-6	< 0.0025 U	--	< 0.05 U	--	< 0.0025 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
1,3-Dichloropropane	mg/kg	0.00043	SL-6	< 0.05 U	--	< 0.05 U	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
1,4-Dichloro-2-Butene	mg/kg			--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	0.0081	SL-7	< 0.0025 U	--	< 0.0025 U	--	< 0.0025 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
2,2-Dichloropropane	mg/kg			< 0.05 U	--	< 0.05 U	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
2-Butanone	mg/kg	350	SL-9	< 1 U	--	< 1 U	--	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
2-Chloroethyl Vinyl Ether	mg/kg			--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	1600	SL-1	< 0.05 U	--	< 0.05 U	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
2-Hexanone	mg/kg	400	SL-1	< 0.5 U	--	< 0.5 U	--	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
2-Pentanone	mg/kg			--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	1600	SL-1	< 0.05 U	--	< 0.05 U	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
4-Methyl-2-pentanone	mg/kg	6400	SL-1	< 1 U	--	< 1 U	--	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Acetone	mg/kg	1.2	SL-9	< 5 U	--	< 5 U	--	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Acrolein	mg/kg	0.00032	SL-6	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	mg/kg	8.3E-06	SL-6	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	mg/kg	640	SL-1	< 0.05 U	--	< 0.05 U	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
Bromochloromethane	mg/kg			--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	0.00089	SL-6	< 0.005 U	--	< 0.005 U	--	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U
Bromoform	mg/kg	0.005	SL-6	< 0.05 U	--	< 0.05 U	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
Bromomethane	mg/kg	0.079	SL-6	< 0.1 U	--	< 0.1 U	--	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U
Carbon Disulfide	mg/kg	0.81	SL-9	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	0.00015	SL-6	< 0.005 U	--	< 0.005 U	--	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U
Chlorobenzene	mg/kg	0.1	SL-6	< 0.05 U	--	< 0.05 U	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
Chloroethane	mg/kg			< 0.1 U	--	< 0.1 U	--	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U
Chloroform	mg/kg	0.052	SL-6	< 0.05 U	--	< 0.05 U	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
Chloromethane	mg/kg			< 0.5 U	--	< 0.5 U	--	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene (DCE)	mg/kg	24	SL-9	< 0.001 U	--	< 0.001 U	--	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	**0.02**	
cis-1,3-Dichloropropene	mg/kg	0.00038	SL-6	< 0.01 U	--	< 0.01 U	--	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Dibromochloromethane	mg/kg	0.00070	SL-6	< 0.01 U	--	< 0.01 U	--	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Dibromomethane	mg/kg	800	SL-1	< 0.05 U	--	< 0.05 U	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
Dichlorodifluoromethane	mg/kg	16000	SL-1	< 0.5 U	--	< 0.5 U	--	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Isopropylbenzene	mg/kg	8000	SL-1	< 0.05 U	--	< 0.05 U	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
m,p-Xylenes	mg/kg			< 0.002 U	--	< 0.002 U	--	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U
Methyl tert-butyl ether (MTBE)	mg/kg	560	SL-1	< 0.001 U	--	< 0.001 U	--	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U
Methylene Chloride	mg/kg	0.030	SL-6	< 0.2 U	--	< 0.2 U	--	< 0.2 U	< 0.2 U	< 0.2 UJ	< 0.2 U	**0.31**	< 0.2 U	
Methyliodide	mg/kg			--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	4000	SL-1	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	mg/kg	4800	SL-1	< 0.25 U	--	< 0.25 U	--	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U
n-Propylbenzene	mg/kg	8000	SL-1	< 0.05 U	--	< 0.05 U	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
o-Xylene	mg/kg			< 0.001 U	--	< 0.001 U	--	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U
p-Isopropyltoluene	mg/kg	320	SL-1	< 0.05 U	--	< 0.05 U	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
sec-Butylbenzene	mg/kg	8000	SL-1	< 0.05 U	--	< 0.05 U	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
Styrene	mg/kg	4.7	SL-9	< 0.05 U	--	< 0.05 U	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
tert-Butylbenzene	mg/kg	8000	SL-1	< 0.05 U	--	< 0.05 U	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
Tetrachloroethene (PCE)	mg/kg	0.0016	SL-6	< 0.001 U	--	< 0.001 U	--	< 0.001 U	**0.073**	**0.32**	**0.0071**	**0.62**	**1.9**	
trans-1,2-Dichloroethene	mg/kg	0.32	SL-6	< 0.002 U	--	< 0.002 U	--	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U
trans-1,3-Dichloropropene	mg/kg	0.00038	SL-6	< 0.01 U	--	< 0.01 U	--	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Trichloroethene (TCE)	mg/kg	0.00027	SL-6	< 0.001 U	--	< 0.001 U	--	< 0.001 U	< 0.001 U	< 0.001 U	**0.0027**	**0.0016**	**0.016**	
Trichlorofluoromethane	mg/kg	24000	SL-1	< 0.5 U	--	< 0.5 U	--	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Vinyl Acetate	mg/kg	80000	SL-1	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	5.6E-05	SL-6	< 0.001 U	--	< 0.001 U	--	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U
Conventionals														
Total Organic Carbon	%			--	--	--	--	--	--	--	--	--	--	--
Total Solids	%			--	--	--	--	**76.6**	--	--	--	--	--	--

Table I.3.C. Saturated Soil Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL

				Location	MW-22				SB-01	SB-02	SB-03		SB-04	SB-05	SB-06
				Date	09/14/22	09/14/22	09/14/22	09/14/22	09/27/07	09/28/07	09/27/07	09/27/07	09/27/07	09/27/07	09/28/07
				Sample	MW-22-10.5-11.5	MW-22-13-13.75	MW-22-17.5-18.5	MW-22-17.5-18.5-TIG	SB-01-9	SB-02-9	SB-03-7	SB-03-13.5	SB-04-8	SB-05-8	SB-06-8
				Depth	10.5 - 11.5 ft	13 - 13.75 ft	17.5 - 18.5 ft	17.5 - 18.5 ft	9 - 11 ft	9 - 11 ft	7 - 8 ft	13.5 - 14.5 ft	8 - 9 ft	8 - 9 ft	8 - 9 ft
				Geologic Unit	Fill	Tidal Flat	Alluvial	Alluvial	Tidal Flat	Tidal Flat	Fill	Tidal Flat	Fill	Fill	Fill
Analyte	Unit	Preliminary RI SL	Basis of SL												
Metals, Total															
Arsenic	mg/kg	7.3	SL-10	--	--	--	--	**1.5**	**2.2**	**1**	**1.7**	**4.2**	**8.7**	**1.9**
Barium	mg/kg	250	SL-10	--	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/kg	0.77	SL-10	--	--	--	--	**0.037**	**0.063**	**0.281**	**0.029**	**0.097**	**0.084**	**0.021**
Chromium	mg/kg	67	SL-9	--	--	--	--	**7.98**	**9.47**	**23.1**	**8.4**	**11.8**	**13.4**	**7.51**
Copper	mg/kg	36	SL-10	--	--	--	--	**9.74**	**56**	**10.8**	**7.58**	**19.9**	**21.7**	**7.19**
Lead	mg/kg	81	SL-6	--	--	--	--	**1.29 J**	**13.7 J**	**31.8 J**	**2.23 J**	**3.32 J**	**4.39 J**	**1.49 J**
Mercury	mg/kg	0.07	SL-10	--	--	--	--	**0.007**	**0.009**	**0.015**	**0.01**	**0.048**	**0.064**	**0.004**
Nickel	mg/kg	48	SL-10	--	--	--	--	--	--	--	--	--	--	--
Selenium	mg/kg	0.78	SL-10	--	--	--	--	--	--	--	--	--	--	--
Silver	mg/kg	0.61	SL-10	--	--	--	--	**0.06**	**0.066**	**0.07**	**0.055**	**0.108**	**0.145**	**0.055**
Zinc	mg/kg	85	SL-10	--	--	--	--	**19.1**	**29.3**	**33**	**15**	**26.3**	**28.9**	**15.4**
Butyl Tins															
Dibutyltin Ion	mg/kg			--	--	--	--	--	--	--	--	--	--	--
Monobutyltin	mg/kg			--	--	--	--	--	--	--	--	--	--	--
Tetrabutyltin	mg/kg			--	--	--	--	--	--	--	--	--	--	--
Tributyltin Ion	mg/kg	0.00011	SL-7	--	--	--	--	--	--	--	--	--	--	--
Polychlorinated Biphenyl (PCB) Aroclors															
Total PCB Aroclors (ND = 0)	mg/kg	5.5E-07	SL-6	< 0.004 U	--	--	--	< 0.0099 UA	**0.021 A**	**0.18 A**	**0.039 A**	< 0.01 UA	< 0.0099 UA	**0.023 A**
Polychlorinated Biphenyl (PCB) Congeners															
Total PCB Congeners (ND = 0)	mg/kg	5.5E-07	SL-6	--	--	--	**8.03E-06 J**	--	--	--	--	--	--	--
Total PCB TEQ (ND = 0)	mg/kg	3.5E-10	SL-6	--	--	--	< 2.47E-06 U	--	--	--	--	--	--	--
Dioxins/Furans															
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	5.2E-06	SL-10	--	--	--	--	--	--	--	--	--	--	--
2,3,7,8-TCDD	mg/kg	5.2E-06	SL-10	--	--	--	--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)															
1-Methylnaphthalene	mg/kg	20	SL-1	< 0.0005 U	< 0.005 U	< 0.0005 U	--	--	--	--	--	--	--	--
2-Methylnaphthalene	mg/kg	0.039	SL-7	< 0.0005 U	< 0.005 U	< 0.0005 U	--	< 0.01 U	< 0.01 U	< 0.01 U	< 0.0099 U	< 0.01 U	< 0.01 U	< 0.0098 U
Acenaphthene	mg/kg	0.028	SL-7	< 0.0005 U	< 0.005 U	< 0.0005 UJ	--	< 0.01 U	< 0.01 U	< 0.01 U	< 0.0099 U	< 0.01 U	< 0.01 U	< 0.0098 U
Acenaphthylene	mg/kg	1.3	SL-8	< 0.0005 U	< 0.005 U	< 0.0005 UJ	--	< 0.01 U	< 0.01 U	< 0.01 U	< 0.0099 U	< 0.01 U	< 0.01 U	< 0.0098 U
Anthracene	mg/kg	0.051	SL-7	< 0.0005 U	< 0.005 U	< 0.0005 U	--	< 0.01 U	< 0.01 U	< 0.01 U	< 0.0099 U	< 0.01 U	< 0.01 U	< 0.0098 U
Benzo(g,h,i)perylene	mg/kg	0.67	SL-8	**0.0018**	**0.014**	< 0.0005 U	--	< 0.01 U	**0.0064**	< 0.01 U	< 0.0099 U	**0.0065**	**0.0058**	< 0.0098 U
Fluoranthene	mg/kg	0.09	SL-7	**0.0052**	**0.047**	< 0.0005 U	--	< 0.01 U	**0.0091**	**0.0046**	**0.003**	**0.013**	**0.011**	< 0.0098 U
Fluorene	mg/kg	0.029	SL-7	< 0.0005 U	< 0.005 U	< 0.0005 UJ	--	< 0.01 U	< 0.01 U	< 0.01 U	< 0.0099 U	< 0.01 U	< 0.01 U	< 0.0098 U
Naphthalene	mg/kg	0.0021	SL-6	< 0.005 U	< 0.005 U	< 0.005 U	--	< 0.01 U	< 0.01 U	**0.0037**	< 0.0099 U	< 0.01 U	< 0.01 U	< 0.0098 U
Phenanthrene	mg/kg	1.5	SL-8	**0.0019**	**0.024**	**0.00069**	--	< 0.01 U	**0.0029**	**0.0081**	**0.0038**	**0.0062**	**0.0054**	**0.0025**
Pyrene	mg/kg	0.14	SL-7	**0.0069**	**0.052**	< 0.0005 U	--	< 0.01 U	**0.0083**	**0.0051**	**0.0033**	**0.017**	**0.014**	< 0.0098 U
Benz(a)anthracene	mg/kg	0.73	SL-9	**0.0028**	**0.016**	< 0.0005 U	--	< 0.01 U	**0.0052**	< 0.01 U	< 0.0099 U	**0.0063**	**0.0048**	< 0.0098 U
Benzo(a)pyrene	mg/kg	1.6E-05	SL-6	**0.0034**	**0.021**	< 0.0005 U	--	< 0.01 U	**0.006**	< 0.01 U	< 0.0099 U	**0.0075**	**0.0061**	< 0.0098 U
Benzo(b)fluoranthene	mg/kg	44	SL-9	**0.0032**	**0.024**	< 0.0005 U	--	< 0.01 U	**0.01**	< 0.01 U	< 0.0099 U	**0.0079**	**0.0072**	< 0.0098 U
Benzo(j)fluoranthene	mg/kg			--	--	--	--	--	--	--	--	--	--	--
Benzo(j,k)fluoranthene	mg/kg			--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	mg/kg	71	SL-9	**0.0011**	**0.007**	< 0.0005 U	--	< 0.01 U	**0.0036**	< 0.01 U	< 0.0099 U	**0.0023**	< 0.01 U	< 0.0098 U
Chrysene	mg/kg	1.4	SL-8	**0.003**	**0.019**	< 0.0005 U	--	< 0.01 U	**0.0071**	< 0.01 U	< 0.0099 U	**0.0071**	**0.0064**	< 0.0098 U
Dibenzo(a,h)anthracene	mg/kg	0.23	SL-8	< 0.0005 U	< 0.005 U	< 0.0005 U	--	< 0.01 U	**0.0022**	< 0.01 U	< 0.0099 U	< 0.01 U	< 0.01 U	< 0.0098 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.6	SL-8	**0.0018**	**0.015**	< 0.0005 U	--	< 0.01 U	**0.006**	< 0.01 U	< 0.0099 U	**0.0061**	**0.0066**	< 0.0098 U
Total Benzofluoranthenes	mg/kg	1.1	SL-9	**0.0043**	**0.031**	< 0.0005 U	--	< 0.01 UA	**0.0136 A**	< 0.01 UA	< 0.0099 UA	**0.0102 A**	**0.0072 A**	< 0.0098 UA
Total HPAHs (ND = 1/2 RDL)	mg/kg	1.1	SL-9	**0.0295**	**0.218**	< 0.0005 U	--	< 0.01 U	**0.0639**	**0.0497**	**0.0459**	**0.0787**	**0.0719**	< 0.0098 U
Total LPAHs (ND = 1/2 RDL)	mg/kg	5.2	SL-8	**0.0054**	**0.0365**	**0.00419**	--	< 0.01 U	**0.0279**	**0.0318**	**0.0286**	**0.0312**	**0.0304**	**0.027**
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	1.6E-05	SL-6	**0.00435**	**0.0276**	< 0.000378 U	--	< 0.00755 U	**0.00877**	< 0.00755 U	< 0.00747 U	**0.0103**	**0.00902**	< 0.0074 U
Semi-Volatile Organic Compounds (SVOCs)															
1,2-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	mg/kg	3.6E-05	SL-6	--	--	--	--	--	--	--	--	--	--	--
1,3-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--	--	--
1,4-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	mg/kg	2400	SL-1	--	--	--	--	--	--	--	--	--	--	--
2,3,5,6-Tetrachlorophenol	mg/kg			--	--	--	--	--	--	--	--	--	--	--
2,3-Dichloroaniline	mg/kg			--	--	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	mg/kg	1.1	SL-6	--	--	--	--	--	--	--	--	--	--	--
2,4,6-Trichlorophenol	mg/kg	0.00019	SL-6	--	--	--	--	--	--	--	--	--	--	--
2,4-Dichlorophenol	mg/kg	0.0043	SL-6	--	--	--	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	mg/kg	0.0023	SL-7	--	--	--	--	R	R	R	R	R	R	R
2,4-Dinitrophenol	mg/kg	0.029	SL-6	--	--	--	--	--	--	--	--	--	--	--
2,4-Dinitrotoluene	mg/kg	0.00016	SL-6	--	--	--	--	--	--	--	--	--	--	--
2,6-Dinitrotoluene	mg/kg	0.67	SL-1	--	--	--	--	--	--	--	--	--	--	--
2-Chloronaphthalene	mg/kg	0.28	SL-6	--	--	--	--	--	--	--	--	--	--	--
2-Chlorophenol	mg/kg	0.011	SL-6	--	--	--	--	--	--	--	--	--	--	--
2-Methylphenol	mg/kg	0.0058	SL-7	--	--	--	--	< 0.01 U	< 0.01 U	< 0.01 U	< 0.0099 U	< 0.01 U	< 0.01 U	< 0.0098 U
2-Nitroaniline	mg/kg	800	SL-1	--	--	--	--	--	--	--	--	--	--	--
2-Nitrophenol	mg/kg			--	--	--	--	--	--	--	--	--	--	--
3 & 4 Methylphenol	mg/kg			--	--	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	mg/kg	1.1E-05	SL-6	--	--	--	--	--	--	--	--	--	--	--
3-Nitroaniline	mg/kg			--	--	--	--	--	--	--	--	--	--	--
4,6-Dinitro-2-methylphenol	mg/kg	0.0073	SL-6	--	--	--	--	--	--	--	--	--	--	--
4-Bromophenyl phenyl ether	mg/kg			--	--	--	--	--	--	--	--	--	--	--
4-Chloro-3-methylphenol	mg/kg	0.028	SL-6	--	--	--	--	--	--	--	--	--	--	--
4-Chloroaniline	mg/kg	5	SL-1	--	--	--	--	--	--	--	--	--	--	--
4-Chlorophenyl phenyl ether	mg/kg			--	--	--	--	--	--	--	--	--	--	--
4-Methylphenol	mg/kg	0.062	SL-7	--	--	--	--	< 0.01 U	< 0.01 U	< 0.01 U	< 0.0099 U	**0.0022**	< 0.01 U	< 0.0098 U
4-Nitroaniline	mg/kg	22	SL-9	--	--	--	--	--	--	--	--	--	--	--
4-Nitrophenol	mg/kg			--	--	--	--	--	--	--	--	--	--	--
Aniline	mg/kg	180	SL-1	--	--	--	--	--	--	--	--	--	--	--
Benzidine	mg/kg	3.4E-08	SL-6	--	--	--	--	--	--	--	--	--	--	--
Benzoic acid	mg/kg	0.17	SL-7	--	--	--	--	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	**0.19**	< 0.2 U
Benzyl alcohol	mg/kg	0.017	SL-7	--	--	--	--	< 0.02 U	**0.0077**	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U
Benzyl butyl phthalate	mg/kg	0.00018	SL-6	--	--	--	--	< 0.01 U	**0.0052**	< 0.01 U	< 0.0099 U	< 0.01 U	< 0.01 U	< 0.0098 U
Bis(2-chloro-1-methylethyl) ether	mg/kg	0.038	SL-6	--	--	--	--	--	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	mg/kg	240	SL-1	--	--	--	--	--	--	--	--	--	--	--
Bis(2-chloroethyl) ether	mg/kg	2.2E-05	SL-6	--	--	--	--	--	--	--	--	--	--	--
bis(2-Chloroisopropyl)ether	mg/kg			--	--	--	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) adipate	mg/kg	830	SL-1	--	--	--	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate	mg/kg	0.0051	SL-6	--	--	--	--	< 0.0095 U	< 0.035 U	< 0.014 U	< 0.012 U	< 0.1 U	< 0.1 U	< 0.018 U
Carbazole	mg/kg	79	SL-9	--	--	--	--	--	--	--	--	--	--	--
Dibenzofuran	mg/kg	0.029	SL-7	--	--	--	--	< 0.01 U	< 0.01 U	< 0.01 U	< 0.0099 U	< 0.01 U	< 0.01 U	< 0.0098 U
Diethyl phthalate	mg/kg	0.034	SL-7	--	--	--	--	< 0.01 U	< 0.0021 U	< 0.01 U	< 0.0019 U	< 0.0023 U	< 0.01 U	< 0.0036 U
Dimethyl phthalate	mg/kg	0.019	SL-7	--	--	--	--	< 0.01 U	**0.026**	< 0.01 U	< 0.0099 U	< 0.01 U	< 0.01 U	< 0.0098 U
Di-n-butyl phthalate	mg/kg	0.011	SL-9	--	--	--	--	< 0.011 U	< 0.017 U	< 0.016 U	< 0.019 U	< 0.019 U	< 0.02 U	< 0.011 U
Di-n-octyl phthalate	mg/kg	0.33	SL-7	--	--	--	--	< 0.01 U	< 0.01 U	< 0.01 U	< 0.0099 U	< 0.01 U	< 0.01 U	< 0.0098 U
Hexachlorobenzene	mg/kg	4E-07	SL-6	--	--	--	--	< 0.01 U	< 0.01 U	< 0.01 U	< 0.0099 U	< 0.01 U	< 0.01 U	< 0.0098 U
Hexachlorobutadiene	mg/kg	1.1E-05	SL-6	< 0.01 U	< 0.01 U	< 0.01 U	--	< 0.01 U	< 0.01 U	< 0.01 U	< 0.0099 U	< 0.01 U	< 0.01 U	< 0.0098 U
Hexachlorocyclopentadiene	mg/kg	0.0017	SL-6	--	--	--	--	--	--	--	--	--	--	--
Hexachloroethane	mg/kg	9.7E-06	SL-6	--	--	--	--	--	--	--	--	--	--	--
Isophorone	mg/kg	0.039	SL-6	--	--	--	--	--	--	--	--	--	--	--
Nitrobenzene	mg/kg	0.041	SL-6	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine	mg/kg	0.00011	SL-6	--	--	--	--	--	--	--	--	--	--	--
N-Nitroso-di-n-propylamine	mg/kg	3.3E-05	SL-6	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	mg/kg	0.0016	SL-7	--	--	--	--	< 0.01 U	< 0.01 U	< 0.01 U	< 0.0099 U	< 0.01 U	< 0.01 U	< 0.0098 U
Pentachlorophenol	mg/kg	1.8E-06	SL-6	--	--	--	--	< 0.1 U	**0.041**	**0.028**	< 0.099 U	< 0.1 U	< 0.1 U	< 0.098 U
Phenol	mg/kg	0.048	SL-7	--	--	--	--	< 0.031 U	< 0.02 U	< 0.031 U	< 0.026 U	< 0.035 U	< 0.045 U	< 0.021 U
Pyridine	mg/kg	80	SL-1	--	--	--	--	--	--	--	--	--	--	--

Table I.3.C. Saturated Soil Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL

Analyte	Unit	Preliminary RI SL	Basis of SL	MW-22				SB-01	SB-02	SB-03		SB-04	SB-05	SB-06
Location				MW-22				SB-01	SB-02	SB-03		SB-04	SB-05	SB-06
Date				09/14/22	09/14/22	09/14/22	09/14/22	09/27/07	09/28/07	09/27/07	09/27/07	09/27/07	09/27/07	09/28/07
Sample				MW-22-10.5-11.5	MW-22-13-13.75	MW-22-17.5-18.5	MW-22-17.5-18.5-TIG	SB-01-9	SB-02-9	SB-03-7	SB-03-13.5	SB-04-8	SB-05-8	SB-06-8
Depth				10.5 - 11.5 ft	13 - 13.75 ft	17.5 - 18.5 ft	17.5 - 18.5 ft	9 - 11 ft	9 - 11 ft	7 - 8 ft	13.5 - 14.5 ft	8 - 9 ft	8 - 9 ft	8 - 9 ft
Geologic Unit				Fill	Tidal Flat	Alluvial	Alluvial	Tidal Flat	Tidal Flat	Fill	Tidal Flat	Fill	Fill	Fill
Pesticides														
2,4'-DDD	mg/kg			--	--	--	--	< 0.00099 U	**0.0023 J**	< 0.0019 U	< 0.00099 U	< 0.001 U	< 0.00099 U	< 0.001 U
2,4'-DDE	mg/kg			--	--	--	--	< 0.00099 U	< 0.001 U	< 0.00099 U	< 0.00099 U	< 0.001 U	< 0.00099 U	< 0.001 U
2,4'-DDT	mg/kg			--	--	--	--	< 0.00099 U	**0.0012 J**	< 0.00099 U	< 0.00099 U	< 0.001 U	< 0.00099 U	**0.0011**
4,4'-DDD	mg/kg	3.6E-07	SL-6	--	--	--	--	< 0.00099 U	**0.0013**	**0.00035 J**	< 0.00099 U	**0.00022**	< 0.00099 U	< 0.001 U
4,4'-DDE	mg/kg	7.6E-08	SL-6	--	--	--	--	< 0.00099 U	**0.00045**	**0.0029 J**	< 0.00099 U	< 0.001 U	< 0.00099 U	**0.0016**
4,4'-DDT	mg/kg	8.1E-07	SL-6	--	--	--	--	< 0.00099 U	**0.0018**	**0.01**	< 0.00099 U	< 0.001 U	< 0.00099 U	**0.0018**
Aldrin	mg/kg	2E-09	SL-6	--	--	--	--	< 0.00099 U	< 0.001 U	**0.0061**	< 0.00099 U	< 0.001 U	< 0.00099 U	< 0.001 U
Alpha-BHC	mg/kg	9.8E-08	SL-6	--	--	--	--	--	--	--	--	--	--	--
Beta-BHC	mg/kg	3.4E-06	SL-6	--	--	--	--	--	--	--	--	--	--	--
Chlordane	mg/kg	1.1E-06	SL-6	--	--	--	--	< 0.0099 U	< 0.01 U	< 0.0099 U	< 0.0099 U	< 0.01 U	< 0.0099 U	< 0.01 U
cis-Chlordane	mg/kg	5.3E-06	SL-7	--	--	--	--	--	--	--	--	--	--	--
cis-Nonachlor	mg/kg			--	--	--	--	--	--	--	--	--	--	--
Delta-BHC	mg/kg	0.0048	SL-1	--	--	--	--	--	--	--	--	--	--	--
Dieldrin	mg/kg	1.8E-09	SL-6	--	--	--	--	< 0.00099 U	**0.00058 J**	**0.027**	< 0.00099 U	< 0.001 U	< 0.00099 U	< 0.001 U
Endosulfan I	mg/kg	6.1E-05	SL-6	--	--	--	--	--	--	--	--	--	--	--
Endosulfan II	mg/kg	6.1E-05	SL-6	--	--	--	--	--	--	--	--	--	--	--
Endosulfan Sulfate	mg/kg	0.1	SL-6	--	--	--	--	--	--	--	--	--	--	--
Endrin	mg/kg	2.2E-05	SL-6	--	--	--	--	--	--	--	--	--	--	--
Endrin Aldehyde	mg/kg	0.00012	SL-6	--	--	--	--	--	--	--	--	--	--	--
Endrin ketone	mg/kg			--	--	--	--	--	--	--	--	--	--	--
Heptachlor	mg/kg	3.3E-09	SL-6	--	--	--	--	< 0.00099 U	< 0.001 U	< 0.00099 U	< 0.00099 U	< 0.001 U	**0.00056**	< 0.001 U
Heptachlor Epoxide	mg/kg	2.5E-08	SL-6	--	--	--	--	--	--	--	--	--	--	--
Lindane	mg/kg	0.00021	SL-6	--	--	--	--	< 0.00099 U	< 0.001 U	< 0.00099 U	< 0.00099 U	< 0.001 U	< 0.00099 U	< 0.001 U
Methoxychlor	mg/kg	0.0016	SL-6	--	--	--	--	--	--	--	--	--	--	--
Mirex	mg/kg	0.00036	SL-6	--	--	--	--	--	--	--	--	--	--	--
Oxychlordane	mg/kg			--	--	--	--	--	--	--	--	--	--	--
Toxaphene	mg/kg	3.1E-06	SL-6	--	--	--	--	--	--	--	--	--	--	--
trans-Chlordane	mg/kg	5.3E-06	SL-7	--	--	--	--	--	--	--	--	--	--	--
trans-Nonachlor	mg/kg			--	--	--	--	--	--	--	--	--	--	--
Total Petroleum Hydrocarbons (TPH)														
Gasoline Range Organics	mg/kg	30	SL-3	**2.1 J**	--	--	--	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U
Diesel Range Organics	mg/kg	2000	SL-9	< 5 UJ	--	--	--	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	**23 U**	**3.7 U**
Motor Oil Range Organics	mg/kg	2000	SL-9	< 25 U	--	--	--	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	**220 J**	**21 U**
Diesel and Oil Extended Range Organics	mg/kg	2000	SL-9	< 25 UJ	--	--	--	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	**243 J**	**24.7**
Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)														
Benzene	mg/kg	0.00056	SL-6	< 0.001 U	< 0.001 U	< 0.001 U	--	--	--	--	--	--	--	--
Toluene	mg/kg	0.044	SL-6	< 0.001 U	< 0.001 U	< 0.001 U	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	0.01	SL-6	< 0.001 U	< 0.001 U	< 0.001 U	--	--	--	--	--	--	--	--
Total Xylenes	mg/kg	0.055	SL-6	< 0.002 U	< 0.002 U	< 0.002 U	--	--	--	--	--	--	--	--
Volatile Organic Compounds (VOCs)														
1,1,1,2-Tetrachloroethane	mg/kg	38	SL-1	< 0.05 U	< 0.05 U	< 0.05 U	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	21	SL-6	< 0.002 U	< 0.002 U	< 0.002 U	--	--	--	--	--	--	--	--
1,1,2 - Trichlorotrifluoroethane	mg/kg	2400000	SL-1	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	0.00011	SL-6	< 0.05 U	< 0.05 U	< 0.05 U	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	0.00033	SL-6	< 0.005 U	< 0.005 U	< 0.005 U	--	--	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	180	SL-1	< 0.002 U	< 0.002 U	< 0.002 U	--	--	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	1.4	SL-6	< 0.001 U	< 0.001 U	< 0.001 U	--	--	--	--	--	--	--	--
1,1-Dichloropropene	mg/kg			< 0.05 U	< 0.05 U	< 0.05 U	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	64	SL-9	< 0.25 U	< 0.25 U	< 0.25 U	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	0.0063	SL-1	< 0.05 U	< 0.05 U	< 0.05 U	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	7.2E-05	SL-6	< 0.01 U	< 0.01 U	< 0.01 U	--	< 0.01 U	< 0.01 U	< 0.01 U	< 0.0099 U	< 0.01 U	< 0.01 U	< 0.0098 U
1,2,4-Trimethylbenzene	mg/kg	800	SL-1	< 0.05 U	< 0.05 U	< 0.05 U	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	mg/kg	0.23	SL-1	< 0.5 U	< 0.5 U	< 0.5 U	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	mg/kg	0.5	SL-1	< 0.005 U	< 0.005 U	< 0.005 U	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	0.003	SL-7	< 0.05 U	< 0.05 U	< 0.05 U	--	< 0.01 U	< 0.01 U	< 0.01 U	< 0.0099 U	< 0.01 U	< 0.01 U	< 0.0098 U
1,2-Dichloroethane (EDC)	mg/kg	0.024	SL-6	< 0.002 U	< 0.002 U	< 0.002 U	--	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	0.001	SL-6	< 0.05 U	< 0.05 U	< 0.05 U	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	800	SL-1	< 0.05 U	< 0.05 U	< 0.05 U	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	0.0013	SL-6	< 0.05 U	< 0.05 U	< 0.05 U	--	--	--	--	--	--	--	--
1,3-Dichloropropane	mg/kg	0.00043	SL-6	< 0.05 U	< 0.05 U	< 0.05 U	--	--	--	--	--	--	--	--
1,4-Dichloro-2-Butene	mg/kg			--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	0.0081	SL-7	< 0.05 U	< 0.05 U	< 0.05 U	--	< 0.01 U	< 0.01 U	< 0.01 U	< 0.0099 U	< 0.01 U	< 0.01 U	< 0.0098 U
2,2-Dichloropropane	mg/kg			< 0.05 U	< 0.05 U	< 0.05 U	--	--	--	--	--	--	--	--
2-Butanone	mg/kg	350	SL-9	< 1 U	< 1 U	< 1 U	--	--	--	--	--	--	--	--
2-Chloroethyl Vinyl Ether	mg/kg			--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	1600	SL-1	< 0.05 U	< 0.05 U	< 0.05 U	--	--	--	--	--	--	--	--
2-Hexanone	mg/kg	400	SL-1	< 0.5 U	< 0.5 U	< 0.5 U	--	--	--	--	--	--	--	--
2-Pentanone	mg/kg			--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	1600	SL-1	< 0.05 U	< 0.05 U	< 0.05 U	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone	mg/kg	6400	SL-1	< 1 U	< 1 U	< 1 U	--	--	--	--	--	--	--	--
Acetone	mg/kg	1.2	SL-9	< 5 U	< 5 U	< 5 U	--	--	--	--	--	--	--	--
Acrolein	mg/kg	0.00032	SL-6	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	mg/kg	8.3E-06	SL-6	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	mg/kg	640	SL-1	< 0.05 U	< 0.05 U	< 0.05 U	--	--	--	--	--	--	--	--
Bromochloromethane	mg/kg			--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	0.00089	SL-6	< 0.005 U	< 0.005 U	< 0.005 U	--	--	--	--	--	--	--	--
Bromoform	mg/kg	0.005	SL-6	< 0.05 U	< 0.05 U	< 0.05 U	--	--	--	--	--	--	--	--
Bromomethane	mg/kg	0.079	SL-6	< 0.1 U	< 0.1 U	< 0.1 U	--	--	--	--	--	--	--	--
Carbon Disulfide	mg/kg	0.81	SL-9	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	0.00015	SL-6	< 0.005 U	< 0.005 U	< 0.005 U	--	--	--	--	--	--	--	--
Chlorobenzene	mg/kg	0.1	SL-6	< 0.05 U	< 0.05 U	< 0.05 U	--	--	--	--	--	--	--	--
Chloroethane	mg/kg			< 0.1 U	< 0.1 U	< 0.1 U	--	--	--	--	--	--	--	--
Chloroform	mg/kg	0.052	SL-6	< 0.05 U	< 0.05 U	< 0.05 U	--	--	--	--	--	--	--	--
Chloromethane	mg/kg			< 0.5 U	< 0.5 U	< 0.5 U	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene (DCE)	mg/kg	24	SL-9	< 0.001 U	**0.0023**	**0.0025**	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	0.00038	SL-6	< 0.01 U	< 0.01 U	< 0.01 U	--	--	--	--	--	--	--	--
Dibromochloromethane	mg/kg	0.00070	SL-6	< 0.01 U	< 0.01 U	< 0.01 U	--	--	--	--	--	--	--	--
Dibromomethane	mg/kg	800	SL-1	< 0.05 U	< 0.05 U	< 0.05 U	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg	16000	SL-1	< 0.5 U	< 0.5 U	< 0.5 U	--	--	--	--	--	--	--	--
Isopropylbenzene	mg/kg	8000	SL-1	< 0.05 U	< 0.05 U	< 0.05 U	--	--	--	--	--	--	--	--
m,p-Xylenes	mg/kg			< 0.002 U	< 0.002 U	< 0.002 U	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	mg/kg	560	SL-1	< 0.001 U	< 0.001 U	< 0.001 U	--	--	--	--	--	--	--	--
Methylene Chloride	mg/kg	0.030	SL-6	< 0.2 U	< 0.2 U	< 0.2 U	--	--	--	--	--	--	--	--
Methyliodide	mg/kg			--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	4000	SL-1	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	mg/kg	4800	SL-1	< 0.25 U	< 0.25 U	< 0.25 U	--	--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	8000	SL-1	< 0.05 U	< 0.05 U	< 0.05 U	--	--	--	--	--	--	--	--
o-Xylene	mg/kg			< 0.001 U	< 0.001 U	< 0.001 U	--	--	--	--	--	--	--	--
p-Isopropyltoluene	mg/kg	320	SL-1	< 0.05 U	< 0.05 U	< 0.05 U	--	--	--	--	--	--	--	--
sec-Butylbenzene	mg/kg	8000	SL-1	< 0.05 U	< 0.05 U	< 0.05 U	--	--	--	--	--	--	--	--
Styrene	mg/kg	4.7	SL-9	< 0.05 U	< 0.05 U	< 0.05 U	--	--	--	--	--	--	--	--
tert-Butylbenzene	mg/kg	8000	SL-1	< 0.05 U	< 0.05 U	< 0.05 U	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	mg/kg	0.0016	SL-6	**0.019**	< 0.001 U	**0.24**	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	0.32	SL-6	< 0.002 U	< 0.002 U	< 0.002 U	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	0.00038	SL-6	< 0.01 U	< 0.01 U	< 0.01 U	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	mg/kg	0.00027	SL-6	< 0.001 U	< 0.001 U	**0.029**	--	--	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg	24000	SL-1	< 0.5 U	< 0.5 U	< 0.5 U	--	--	--	--	--	--	--	--
Vinyl Acetate	mg/kg	80000	SL-1	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	5.6E-05	SL-6	< 0.001 U	**0.0029**	< 0.001 U	--	--	--	--	--	--	--	--
Conventionals														
Total Organic Carbon	%			--	--	--	--	--	--	--	--	--	--	--
Total Solids	%			--	--	--	**78.1**	**84.3**	**82.7**	**81.5**	**84.2**	**71.8**	**60.5**	**81.1**

Table I.3.C. Saturated Soil Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL

				Location	SB-07	SB-08	SB-09	SB-10	SB-13	SB-14	SB-17	SB-18A	SB-19	SB-20A	SB-21
				Date	09/28/07	09/27/07	09/27/07	09/28/07	10/01/07	10/01/07	07/27/11	07/27/11	07/28/11	07/27/11	07/27/11
				Sample	SB-07-9	SB-08-9	SB-09-10	SB-10-14	SB-13-7	SB-14-7.5	SB17-10.0-072711	SB18A-9.0-072711	SB19-8.0-072811	SB20A-8.5-072711	SB21-9.0-072711
				Depth	9 - 10 ft	9 - 10 ft	10 - 11 ft	14 - 15 ft	7 - 7.5 ft	7.5 - 8 ft	10 - 10 ft	9 - 9 ft	8 - 8 ft	8.5 - 8.5 ft	9 - 9 ft
				Geologic Unit	Fill	Tidal Flat	Fill	Tidal Flat	Tidal Flat	Fill					
Analyte	Unit	Preliminary RI SL	Basis of SL												
Metals, Total															
Arsenic	mg/kg	7.3	SL-10	**1.4**	**2.1**	**2**	**1.8**	**1.2**	**1.6**	--	--	--	--	< 12 U
Barium	mg/kg	250	SL-10	--	--	--	--	--	--	--	--	--	--	**31**
Cadmium	mg/kg	0.77	SL-10	**0.025**	**0.061**	**0.029**	**0.141**	**0.577**	**0.159**	--	--	--	--	**0.61**
Chromium	mg/kg	67	SL-9	**6.37**	**10.6**	**7.66**	**8.6**	**21.5**	**22.1**	--	--	--	--	**27**
Copper	mg/kg	36	SL-10	**7.38**	**13.9**	**10.6**	**10.8**	**5.43**	**9.88**	--	--	--	--	--
Lead	mg/kg	81	SL-6	**2.13 J**	**2.09 J**	**1.46 J**	**16.3 J**	**33.9**	**18.2**	--	--	--	--	**46**
Mercury	mg/kg	0.07	SL-10	**0.005**	**0.028**	**0.008**	**0.007**	**0.021**	**0.274**	--	--	--	--	< 0.3 U
Nickel	mg/kg	48	SL-10	--	--	--	--	--	--	--	--	--	--	--
Selenium	mg/kg	0.78	SL-10	--	--	--	--	--	--	--	--	--	--	< 12 U
Silver	mg/kg	0.61	SL-10	**0.049**	**0.091**	**0.064**	**0.116**	**0.057**	**0.058**	--	--	--	--	< 0.59 U
Zinc	mg/kg	85	SL-10	**14.8**	**22.6**	**17.6**	**28.7**	**122**	**26.4**	--	--	--	--	--
Butyl Tins															
Dibutyltin Ion	mg/kg			--	--	--	--	--	--	--	--	--	--	--
Monobutyltin	mg/kg			--	--	--	--	--	--	--	--	--	--	--
Tetrabutyltin	mg/kg			--	--	--	--	--	--	--	--	--	--	--
Tributyltin Ion	mg/kg	0.00011	SL-7	--	--	--	--	--	--	--	--	--	--	--
Polychlorinated Biphenyl (PCB) Aroclors															
Total PCB Aroclors (ND = 0)	mg/kg	5.5E-07	SL-6	**0.0059 JA**	< 0.01 UA	< 0.0099 UA	**0.046 A**	**13 A**	**11.9 A**	--	--	--	--	**8.9 A**
Polychlorinated Biphenyl (PCB) Congeners															
Total PCB Congeners (ND = 0)	mg/kg	5.5E-07	SL-6	--	--	--	--	--	--	--	--	--	--	--
Total PCB TEQ (ND = 0)	mg/kg	3.5E-10	SL-6	--	--	--	--	--	--	--	--	--	--	--
Dioxins/Furans															
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	5.2E-06	SL-10	--	--	--	--	--	--	--	--	--	--	--
2,3,7,8-TCDD	mg/kg	5.2E-06	SL-10	--	--	--	--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)															
1-Methylnaphthalene	mg/kg	20	SL-1	--	--	--	--	--	--	--	--	--	--	< 0.016 U
2-Methylnaphthalene	mg/kg	0.039	SL-7	< 0.0099 U	< 0.0099 U	< 0.0098 U	< 0.01 U	< 0.19 U	**4.5**	--	--	--	--	< 0.016 U
Acenaphthene	mg/kg	0.028	SL-7	< 0.0099 U	< 0.0099 U	< 0.0098 U	< 0.01 U	< 0.19 U	**0.51 J**	--	--	--	--	< 0.016 U
Acenaphthylene	mg/kg	1.3	SL-8	< 0.0099 U	< 0.0099 U	< 0.0098 U	< 0.01 U	< 0.19 U	< 1 U	--	--	--	--	< 0.016 U
Anthracene	mg/kg	0.051	SL-7	< 0.0099 U	< 0.0099 U	< 0.0098 U	< 0.01 U	< 0.19 U	**1.2**	--	--	--	--	**0.016**
Benzo(g,h,i)perylene	mg/kg	0.67	SL-8	< 0.0099 U	< 0.0099 U	< 0.0098 U	**0.0058**	< 0.19 U	< 1 U	--	--	--	--	< 0.016 U
Fluoranthene	mg/kg	0.09	SL-7	< 0.0099 U	**0.0024**	**0.0021**	**0.003**	< 0.19 U	**0.88 J**	--	--	--	--	**0.023**
Fluorene	mg/kg	0.029	SL-7	< 0.0099 U	< 0.0099 U	< 0.0098 U	< 0.01 U	< 0.19 U	**1**	--	--	--	--	< 0.016 U
Naphthalene	mg/kg	0.0021	SL-6	< 0.0099 U	< 0.0099 U	< 0.0098 U	< 0.01 U	< 0.19 U	**0.51 J**	--	--	--	--	< 0.016 U
Phenanthrene	mg/kg	1.5	SL-8	< 0.0099 U	**0.0031**	**0.0024**	**0.0024**	< 0.19 U	**2.4**	--	--	--	--	< 0.016 U
Pyrene	mg/kg	0.14	SL-7	< 0.0099 U	**0.0025**	**0.0026**	**0.0043**	< 0.19 U	**0.99 J**	--	--	--	--	**0.031**
Benz(a)anthracene	mg/kg	0.73	SL-9	< 0.0099 U	< 0.0099 U	< 0.0098 U	**0.0022**	< 0.19 U	< 1 U	--	--	--	--	< 0.016 U
Benzo(a)pyrene	mg/kg	1.6E-05	SL-6	< 0.0099 U	< 0.0099 U	< 0.0098 U	**0.0044**	< 0.19 U	< 1 U	--	--	--	--	< 0.016 U
Benzo(b)fluoranthene	mg/kg	44	SL-9	< 0.0099 U	< 0.0099 U	< 0.0098 U	**0.0084**	< 0.19 U	< 1 U	--	--	--	--	< 0.016 U
Benzo(j)fluoranthene	mg/kg			--	--	--	--	--	--	--	--	--	--	--
Benzo(j,k)fluoranthene	mg/kg			--	--	--	--	--	--	--	--	--	--	< 0.016 U
Benzo(k)fluoranthene	mg/kg	71	SL-9	< 0.0099 U	< 0.0099 U	< 0.0098 U	**0.0019**	< 0.19 U	< 1 U	--	--	--	--	--
Chrysene	mg/kg	1.4	SL-8	< 0.0099 U	< 0.0099 U	< 0.0098 U	**0.0063**	< 0.19 U	**0.53 J**	--	--	--	--	**0.022**
Dibenzo(a,h)anthracene	mg/kg	0.23	SL-8	< 0.0099 U	< 0.0099 U	< 0.0098 U	< 0.01 U	< 0.19 U	< 1 U	--	--	--	--	< 0.016 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.6	SL-8	< 0.0099 U	< 0.0099 U	< 0.0098 U	**0.0057**	< 0.19 U	< 1 U	--	--	--	--	< 0.016 U
Total Benzofluoranthenes	mg/kg	1.1	SL-9	< 0.0099 UA	< 0.0099 UA	< 0.0098 UA	**0.0103 A**	< 0.19 UA	< 1 UA	--	--	--	--	< 0.016 U
Total HPAHs (ND = 1/2 RDL)	mg/kg	1.1	SL-9	< 0.0099 U	**0.0445**	**0.0439**	**0.047**	< 0.19 U	**5.9 J**	--	--	--	--	**0.132**
Total LPAHs (ND = 1/2 RDL)	mg/kg	5.2	SL-8	< 0.0099 U	**0.0279**	**0.0269**	**0.0274**	< 0.19 U	**6.12 J**	--	--	--	--	**0.056**
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	1.6E-05	SL-6	< 0.00747 U	< 0.00747 U	< 0.0074 U	**0.00678**	< 0.143 U	**0.755 J**	--	--	--	--	**0.0122**
Semi-Volatile Organic Compounds (SVOCs)															
1,2-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--	--	< 0.4 U
1,2-Diphenylhydrazine	mg/kg	3.6E-05	SL-6	--	--	--	--	--	--	--	--	--	--	< 0.4 U
1,3-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--	--	< 0.4 U
1,4-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--	--	< 0.4 U
2,3,4,6-Tetrachlorophenol	mg/kg	2400	SL-1	--	--	--	--	--	--	--	--	--	--	< 0.4 U
2,3,5,6-Tetrachlorophenol	mg/kg			--	--	--	--	--	--	--	--	--	--	< 0.4 U
2,3-Dichloroaniline	mg/kg			--	--	--	--	--	--	--	--	--	--	< 0.4 U
2,4,5-Trichlorophenol	mg/kg	1.1	SL-6	--	--	--	--	--	--	--	--	--	--	< 0.4 U
2,4,6-Trichlorophenol	mg/kg	0.00019	SL-6	--	--	--	--	--	--	--	--	--	--	< 0.4 U
2,4-Dichlorophenol	mg/kg	0.0043	SL-6	--	--	--	--	--	--	--	--	--	--	< 0.4 U
2,4-Dimethylphenol	mg/kg	0.0023	SL-7	R	R	R	R	R	R	--	--	--	--	< 4 U
2,4-Dinitrophenol	mg/kg	0.029	SL-6	--	--	--	--	--	--	--	--	--	--	**2.3**
2,4-Dinitrotoluene	mg/kg	0.00016	SL-6	--	--	--	--	--	--	--	--	--	--	< 0.4 U
2,6-Dinitrotoluene	mg/kg	0.67	SL-1	--	--	--	--	--	--	--	--	--	--	< 0.4 U
2-Chloronaphthalene	mg/kg	0.28	SL-6	--	--	--	--	--	--	--	--	--	--	< 0.4 U
2-Chlorophenol	mg/kg	0.011	SL-6	--	--	--	--	--	--	--	--	--	--	< 0.4 U
2-Methylphenol	mg/kg	0.0058	SL-7	< 0.0099 U	< 0.0099 U	< 0.0098 U	< 0.01 U	< 0.19 U	< 1 U	--	--	--	--	< 0.4 U
2-Nitroaniline	mg/kg	800	SL-1	--	--	--	--	--	--	--	--	--	--	< 0.4 U
2-Nitrophenol	mg/kg			--	--	--	--	--	--	--	--	--	--	< 0.4 U
3 & 4 Methylphenol	mg/kg			--	--	--	--	--	--	--	--	--	--	< 0.4 U
3,3'-Dichlorobenzidine	mg/kg	1.1E-05	SL-6	--	--	--	--	--	--	--	--	--	--	< 4 U
3-Nitroaniline	mg/kg			--	--	--	--	--	--	--	--	--	--	< 0.4 U
4,6-Dinitro-2-methylphenol	mg/kg	0.0073	SL-6	--	--	--	--	--	--	--	--	--	--	< 2 U
4-Bromophenyl phenyl ether	mg/kg			--	--	--	--	--	--	--	--	--	--	< 0.4 U
4-Chloro-3-methylphenol	mg/kg	0.028	SL-6	--	--	--	--	--	--	--	--	--	--	< 0.4 U
4-Chloroaniline	mg/kg	5	SL-1	--	--	--	--	--	--	--	--	--	--	< 0.4 U
4-Chlorophenyl phenyl ether	mg/kg			--	--	--	--	--	--	--	--	--	--	< 0.4 U
4-Methylphenol	mg/kg	0.062	SL-7	< 0.0099 U	< 0.0099 U	< 0.0098 U	< 0.01 U	< 0.19 U	< 1 U	--	--	--	--	--
4-Nitroaniline	mg/kg	22	SL-9	--	--	--	--	--	--	--	--	--	--	< 0.4 U
4-Nitrophenol	mg/kg			--	--	--	--	--	--	--	--	--	--	< 0.4 U
Aniline	mg/kg	180	SL-1	--	--	--	--	--	--	--	--	--	--	< 0.4 U
Benzidine	mg/kg	3.4E-08	SL-6	--	--	--	--	--	--	--	--	--	--	< 4 U
Benzoic acid	mg/kg	0.17	SL-7	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 3.8 U	< 20 U	--	--	--	--	--
Benzyl alcohol	mg/kg	0.017	SL-7	< 0.02 U	**0.0041**	< 0.02 U	< 0.02 U	< 0.38 U	< 2 U	--	--	--	--	< 0.4 U
Benzyl butyl phthalate	mg/kg	0.00018	SL-6	< 0.0099 U	< 0.0099 U	< 0.0098 U	< 0.01 U	< 0.19 U	< 1 U	--	--	--	--	< 4 U
Bis(2-chloro-1-methylethyl) ether	mg/kg	0.038	SL-6	--	--	--	--	--	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	mg/kg	240	SL-1	--	--	--	--	--	--	--	--	--	--	< 0.4 U
Bis(2-chloroethyl) ether	mg/kg	2.2E-05	SL-6	--	--	--	--	--	--	--	--	--	--	< 0.4 U
bis(2-Chloroisopropyl)ether	mg/kg			--	--	--	--	--	--	--	--	--	--	< 0.4 U
Bis(2-ethylhexyl) adipate	mg/kg	830	SL-1	--	--	--	--	--	--	--	--	--	--	< 0.4 U
Bis(2-ethylhexyl) phthalate	mg/kg	0.0051	SL-6	< 0.099 U	< 0.012 U	< 0.011 U	< 0.021 U	< 1.9 U	**2 J**	--	--	--	--	< 0.4 U
Carbazole	mg/kg	79	SL-9	--	--	--	--	--	--	--	--	--	--	< 0.4 U
Dibenzofuran	mg/kg	0.029	SL-7	< 0.0099 U	< 0.0099 U	< 0.0098 U	< 0.01 U	< 0.19 U	**0.6 J**	--	--	--	--	< 0.4 U
Diethyl phthalate	mg/kg	0.034	SL-7	< 0.0019 U	< 0.003 U	< 0.0023 U	< 0.0021 U	< 0.19 U	< 1 U	--	--	--	--	< 2 U
Dimethyl phthalate	mg/kg	0.019	SL-7	< 0.0099 U	< 0.0099 U	< 0.0098 U	**0.0067**	< 0.19 U	< 1 U	--	--	--	--	< 0.4 U
Di-n-butyl phthalate	mg/kg	0.011	SL-9	< 0.0095 U	< 0.012 U	< 0.02 U	< 0.11 U	< 0.38 U	< 2 U	--	--	--	--	< 4 U
Di-n-octyl phthalate	mg/kg	0.33	SL-7	< 0.0099 U	< 0.0099 U	< 0.0098 U	< 0.01 U	< 0.19 U	< 1 U	--	--	--	--	< 0.4 U
Hexachlorobenzene	mg/kg	4E-07	SL-6	< 0.0099 U	< 0.0099 U	< 0.0098 U	< 0.01 U	< 0.19 U	< 1 U	--	--	--	--	< 0.4 U
Hexachlorobutadiene	mg/kg	1.1E-05	SL-6	< 0.0099 U	< 0.0099 U	< 0.0098 U	< 0.01 U	< 0.19 U	< 0.025 U	--	--	--	--	< 0.33 U
Hexachlorocyclopentadiene	mg/kg	0.0017	SL-6	--	--	--	--	--	--	--	--	--	--	< 0.4 U
Hexachloroethane	mg/kg	9.7E-06	SL-6	--	--	--	--	--	--	--	--	--	--	< 0.4 U
Isophorone	mg/kg	0.039	SL-6	--	--	--	--	--	--	--	--	--	--	< 0.4 U
Nitrobenzene	mg/kg	0.041	SL-6	--	--	--	--	--	--	--	--	--	--	< 0.4 U
N-Nitrosodimethylamine	mg/kg	0.00011	SL-6	--	--	--	--	--	--	--	--	--	--	< 0.4 U
N-Nitroso-di-n-propylamine	mg/kg	3.3E-05	SL-6	--	--	--	--	--	--	--	--	--	--	< 0.4 U
N-Nitrosodiphenylamine	mg/kg	0.0016	SL-7	< 0.0099 U	< 0.0099 U	< 0.0098 U	< 0.01 U	< 0.19 U	< 1 U	--	--	--	--	< 0.4 U
Pentachlorophenol	mg/kg	1.8E-06	SL-6	< 0.099 U	< 0.099 U	< 0.098 U	**0.079**	< 1.9 U	< 10 U	--	--	--	--	< 2 U
Phenol	mg/kg	0.048	SL-7	< 0.016 U	< 0.024 U	< 0.021 U	< 0.014 U	< 0.57 U	< 3 U	--	--	--	--	< 0.4 U
Pyridine	mg/kg	80	SL-1	--	--	--	--	--	--	--	--	--	--	< 4 U

Table I.3.C. Saturated Soil Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL

				Location	SB-07	SB-08	SB-09	SB-10	SB-13	SB-14	SB-17	SB-18A	SB-19	SB-20A	SB-21
				Date	09/28/07	09/27/07	09/27/07	09/28/07	10/01/07	10/01/07	07/27/11	07/27/11	07/28/11	07/27/11	07/27/11
				Sample	SB-07-9	SB-08-9	SB-09-10	SB-10-14	SB-13-7	SB-14-7.5	SB17-10.0-072711	SB18A-9.0-072711	SB19-8.0-072811	SB20A-8.5-072711	SB21-9.0-072711
				Depth	9 - 10 ft	9 - 10 ft	10 - 11 ft	14 - 15 ft	7 - 7.5 ft	7.5 - 8 ft	10 - 10 ft	9 - 9 ft	8 - 8 ft	8.5 - 8.5 ft	9 - 9 ft
				Geologic Unit	Fill	Tidal Flat	Fill	Tidal Flat	Tidal Flat	Fill					
Analyte	Unit	Preliminary RI SL	Basis of SL												
Pesticides															
2,4'-DDD	mg/kg			< 0.001 U	< 0.001 U	< 0.00099 U	< 0.00099 U	< 0.28 U	< 0.098 U	--	--	--	--	--	
2,4'-DDE	mg/kg			< 0.001 U	< 0.001 U	< 0.00099 U	< 0.00099 U	< 0.27 U	< 0.074 U	--	--	--	--	--	
2,4'-DDT	mg/kg			**0.0017**	< 0.001 U	< 0.00099 U	**0.0019**	**1.3**	**0.9**	--	--	--	--	--	
4,4'-DDD	mg/kg	3.6E-07	SL-6	**0.00026**	< 0.001 U	< 0.00099 U	< 0.00099 U	< 0.1 U	**0.13**	--	--	--	--	--	< 0.012 U
4,4'-DDE	mg/kg	7.6E-08	SL-6	**0.0021**	**0.00049**	< 0.00099 U	< 0.00099 U	< 0.1 U	**0.39 J**	--	--	--	--	--	**0.32**
4,4'-DDT	mg/kg	8.1E-07	SL-6	**0.0033**	< 0.001 U	< 0.00099 U	**0.0036**	**1.6 J**	**1.2 J**	--	--	--	--	--	< 0.012 U
Aldrin	mg/kg	2E-09	SL-6	**0.002**	< 0.001 U	< 0.00099 U	< 0.00099 U	< 0.1 U	**9.4**	--	--	--	--	--	**0.018 J**
Alpha-BHC	mg/kg	9.8E-08	SL-6	--	--	--	--	--	--	--	--	--	--	--	< 0.0059 U
Beta-BHC	mg/kg	3.4E-06	SL-6	--	--	--	--	--	--	--	--	--	--	--	< 0.0059 U
Chlordane	mg/kg	1.1E-06	SL-6	< 0.01 U	< 0.01 U	< 0.0099 U	< 0.0099 U	< 3.2 U	< 5 U	--	--	--	--	--	--
cis-Chlordane	mg/kg	5.3E-06	SL-7	--	--	--	--	--	--	--	--	--	--	--	**0.047**
cis-Nonachlor	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
Delta-BHC	mg/kg	0.0048	SL-1	--	--	--	--	--	--	--	--	--	--	--	< 0.0059 U
Dieldrin	mg/kg	1.8E-09	SL-6	**0.0017**	< 0.001 U	< 0.00099 U	< 0.0017 U	< 0.12 U	< 0.071 U	--	--	--	--	--	**0.18 J**
Endosulfan I	mg/kg	6.1E-05	SL-6	--	--	--	--	--	--	--	--	--	--	--	< 0.0059 U
Endosulfan II	mg/kg	6.1E-05	SL-6	--	--	--	--	--	--	--	--	--	--	--	< 0.012 U
Endosulfan Sulfate	mg/kg	0.1	SL-6	--	--	--	--	--	--	--	--	--	--	--	< 0.012 U
Endrin	mg/kg	2.2E-05	SL-6	--	--	--	--	--	--	--	--	--	--	--	< 0.012 U
Endrin Aldehyde	mg/kg	0.00012	SL-6	--	--	--	--	--	--	--	--	--	--	--	**0.16**
Endrin ketone	mg/kg			--	--	--	--	--	--	--	--	--	--	--	< 0.012 U
Heptachlor	mg/kg	3.3E-09	SL-6	< 0.001 U	< 0.001 U	< 0.00099 U	< 0.00099 U	< 0.1 U	< 0.0099 U	--	--	--	--	--	**0.0076**
Heptachlor Epoxide	mg/kg	2.5E-08	SL-6	--	--	--	--	--	--	--	--	--	--	--	< 0.0059 U
Lindane	mg/kg	0.00021	SL-6	< 0.001 U	< 0.001 U	< 0.00099 U	< 0.00099 U	< 0.1 U	< 0.0099 U	--	--	--	--	--	< 0.0059 U
Methoxychlor	mg/kg	0.0016	SL-6	--	--	--	--	--	--	--	--	--	--	--	< 0.012 U
Mirex	mg/kg	0.00036	SL-6	--	--	--	--	--	--	--	--	--	--	--	--
Oxychlordane	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
Toxaphene	mg/kg	3.1E-06	SL-6	--	--	--	--	--	--	--	--	--	--	--	< 0.059 U
trans-Chlordane	mg/kg	5.3E-06	SL-7	--	--	--	--	--	--	--	--	--	--	--	**0.18 J**
trans-Nonachlor	mg/kg			--	--	--	--	--	--	--	--	--	--	--	--
Total Petroleum Hydrocarbons (TPH)															
Gasoline Range Organics	mg/kg	30	SL-3	< 20 U	< 20 U	< 20 U	< 20 U	< 1.6 U	**350 J**	--	--	--	< 6 U	< 6.6 U	
Diesel Range Organics	mg/kg	2000	SL-9	< 50 U	< 50 U	< 50 U	< 50 U	**950 J**	**3000 J**	**34 J**	< 29 U	< 170 U	**170 J**	**400 J**	
Motor Oil Range Organics	mg/kg	2000	SL-9	< 100 U	< 100 U	< 100 U	< 100 U	**4700 J**	**8900 J**	**220**	**82**	**780**	**1200**	**2900**	
Diesel and Oil Extended Range Organics	mg/kg	2000	SL-9	< 100 U	< 100 U	< 100 U	< 100 U	**5650 J**	**11900 J**	**254 J**	**82**	**780**	**1370 J**	**3300 J**	
Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)															
Benzene	mg/kg	0.00056	SL-6	--	--	--	--	--	< 0.0063 U	--	--	--	< 0.02 U	< 0.0011 U	
Toluene	mg/kg	0.044	SL-6	--	--	--	--	--	**0.00089 J**	--	--	--	< 0.06 U	< 0.0057 U	
Ethylbenzene	mg/kg	0.01	SL-6	--	--	--	--	--	< 0.0063 U	--	--	--	< 0.06 U	< 0.0011 U	
Total Xylenes	mg/kg	0.055	SL-6	--	--	--	--	--	< 0.0063 U	--	--	--	< 0.06 U	< 0.0023 U	
Volatile Organic Compounds (VOCs)															
1,1,1,2-Tetrachloroethane	mg/kg	38	SL-1	--	--	--	--	--	< 0.0063 U	--	--	--	--	< 0.0011 U	
1,1,1-Trichloroethane	mg/kg	21	SL-6	--	--	--	--	--	< 0.0063 U	--	--	--	--	< 0.0011 U	
1,1,2 - Trichlorotrifluoroethane	mg/kg	2400000	SL-1	--	--	--	--	--	--	--	--	--	--	--	
1,1,2,2-Tetrachloroethane	mg/kg	0.00011	SL-6	--	--	--	--	--	< 0.0063 U	--	--	--	--	< 0.066 U	
1,1,2-Trichloroethane	mg/kg	0.00033	SL-6	--	--	--	--	--	< 0.0063 U	--	--	--	--	< 0.0011 U	
1,1-Dichloroethane	mg/kg	180	SL-1	--	--	--	--	--	< 0.0063 U	--	--	--	--	< 0.0011 U	
1,1-Dichloroethene	mg/kg	1.4	SL-6	--	--	--	--	--	< 0.0063 U	--	--	--	--	< 0.0011 U	
1,1-Dichloropropene	mg/kg			--	--	--	--	--	< 0.0063 U	--	--	--	--	< 0.0011 U	
1,2,3-Trichlorobenzene	mg/kg	64	SL-9	--	--	--	--	--	< 0.025 U	--	--	--	--	< 0.066 U	
1,2,3-Trichloropropane	mg/kg	0.0063	SL-1	--	--	--	--	--	< 0.0063 U	--	--	--	--	< 0.066 U	
1,2,4-Trichlorobenzene	mg/kg	7.2E-05	SL-6	< 0.0099 U	< 0.0099 U	< 0.0098 U	< 0.01 U	< 0.19 U	< 0.025 U	--	--	--	--	< 0.066 U	
1,2,4-Trimethylbenzene	mg/kg	800	SL-1	--	--	--	--	--	< 0.025 U	--	--	--	--	< 0.066 U	
1,2-Dibromo-3-chloropropane	mg/kg	0.23	SL-1	--	--	--	--	--	< 0.025 U	--	--	--	--	< 0.33 U	
1,2-Dibromoethane (EDB)	mg/kg	0.5	SL-1	--	--	--	--	--	< 0.025 U	--	--	--	--	< 0.0011 U	
1,2-Dichlorobenzene	mg/kg	0.003	SL-7	< 0.0099 U	< 0.0099 U	< 0.0098 U	< 0.01 U	< 0.19 U	< 0.0063 U	--	--	--	--	< 0.066 U	
1,2-Dichloroethane (EDC)	mg/kg	0.024	SL-6	--	--	--	--	--	< 0.0063 U	--	--	--	--	< 0.0011 U	
1,2-Dichloropropane	mg/kg	0.001	SL-6	--	--	--	--	--	< 0.0063 U	--	--	--	--	< 0.0011 U	
1,3,5-Trimethylbenzene	mg/kg	800	SL-1	--	--	--	--	--	< 0.025 U	--	--	--	--	< 0.066 U	
1,3-Dichlorobenzene	mg/kg	0.0013	SL-6	--	--	--	--	--	< 0.0063 U	--	--	--	--	< 0.066 U	
1,3-Dichloropropane	mg/kg	0.00043	SL-6	--	--	--	--	--	< 0.0063 U	--	--	--	--	< 0.0011 U	
1,4-Dichloro-2-Butene	mg/kg			--	--	--	--	--	--	--	--	--	--	--	
1,4-Dichlorobenzene	mg/kg	0.0081	SL-7	< 0.0099 U	< 0.0099 U	< 0.0098 U	< 0.01 U	< 0.19 U	< 0.0063 U	--	--	--	--	< 0.066 U	
2,2-Dichloropropane	mg/kg			--	--	--	--	--	< 0.0063 U	--	--	--	--	< 0.0011 U	
2-Butanone	mg/kg	350	SL-9	--	--	--	--	--	< 0.025 U	--	--	--	--	**0.017**	
2-Chloroethyl Vinyl Ether	mg/kg			--	--	--	--	--	--	--	--	--	--	< 0.0057 U	
2-Chlorotoluene	mg/kg	1600	SL-1	--	--	--	--	--	< 0.025 U	--	--	--	--	< 0.066 U	
2-Hexanone	mg/kg	400	SL-1	--	--	--	--	--	< 0.025 U	--	--	--	--	< 0.0057 U	
2-Pentanone	mg/kg			--	--	--	--	--	--	--	--	--	--	--	
4-Chlorotoluene	mg/kg	1600	SL-1	--	--	--	--	--	< 0.025 U	--	--	--	--	< 0.066 U	
4-Methyl-2-pentanone	mg/kg	6400	SL-1	--	--	--	--	--	< 0.025 U	--	--	--	--	< 0.0057 U	
Acetone	mg/kg	1.2	SL-9	--	--	--	--	--	< 0.014 U	--	--	--	--	**0.11**	
Acrolein	mg/kg	0.00032	SL-6	--	--	--	--	--	--	--	--	--	--	--	
Acrylonitrile	mg/kg	8.3E-06	SL-6	--	--	--	--	--	--	--	--	--	--	--	
Bromobenzene	mg/kg	640	SL-1	--	--	--	--	--	< 0.0063 U	--	--	--	--	< 0.066 U	
Bromochloromethane	mg/kg			--	--	--	--	--	< 0.0063 U	--	--	--	--	< 0.0011 U	
Bromodichloromethane	mg/kg	0.00089	SL-6	--	--	--	--	--	< 0.0063 U	--	--	--	--	< 0.0011 U	
Bromoform	mg/kg	0.005	SL-6	--	--	--	--	--	< 0.0063 U	--	--	--	--	< 0.0011 U	
Bromomethane	mg/kg	0.079	SL-6	--	--	--	--	--	< 0.0063 U	--	--	--	--	< 0.0011 U	
Carbon Disulfide	mg/kg	0.81	SL-9	--	--	--	--	--	< 0.0063 U	--	--	--	--	**0.0093**	
Carbon Tetrachloride	mg/kg	0.00015	SL-6	--	--	--	--	--	< 0.0063 U	--	--	--	--	< 0.0011 U	
Chlorobenzene	mg/kg	0.1	SL-6	--	--	--	--	--	< 0.0063 U	--	--	--	--	< 0.0011 U	
Chloroethane	mg/kg			--	--	--	--	--	< 0.0063 U	--	--	--	--	< 0.0057 U	
Chloroform	mg/kg	0.052	SL-6	--	--	--	--	--	< 0.0063 U	--	--	--	--	< 0.0011 U	
Chloromethane	mg/kg			--	--	--	--	--	< 0.0063 U	--	--	--	--	< 0.0057 U	
cis-1,2-Dichloroethene (DCE)	mg/kg	24	SL-9	--	--	--	--	--	< 0.0063 U	--	--	--	--	< 0.0011 U	
cis-1,3-Dichloropropene	mg/kg	0.00038	SL-6	--	--	--	--	--	< 0.0063 U	--	--	--	--	< 0.0011 U	
Dibromochloromethane	mg/kg	0.00070	SL-6	--	--	--	--	--	< 0.0063 U	--	--	--	--	< 0.0011 U	
Dibromomethane	mg/kg	800	SL-1	--	--	--	--	--	< 0.0063 U	--	--	--	--	< 0.0011 U	
Dichlorodifluoromethane	mg/kg	16000	SL-1	--	--	--	--	--	< 0.0063 U	--	--	--	--	< 0.0011 U	
Isopropylbenzene	mg/kg	8000	SL-1	--	--	--	--	--	< 0.025 U	--	--	--	--	< 0.0011 U	
m,p-Xylenes	mg/kg			--	--	--	--	--	< 0.0063 U	--	--	--	< 0.06 U	< 0.0023 U	
Methyl tert-butyl ether (MTBE)	mg/kg	560	SL-1	--	--	--	--	--	--	--	--	--	--	< 0.0011 U	
Methylene Chloride	mg/kg	0.030	SL-6	--	--	--	--	--	< 0.001 U	--	--	--	--	< 0.011 U	
Methyliodide	mg/kg			--	--	--	--	--	--	--	--	--	--	< 0.0057 U	
n-Butylbenzene	mg/kg	4000	SL-1	--	--	--	--	--	< 0.025 U	--	--	--	--	< 0.066 U	
n-Hexane	mg/kg	4800	SL-1	--	--	--	--	--	--	--	--	--	--	--	
n-Propylbenzene	mg/kg	8000	SL-1	--	--	--	--	--	< 0.025 U	--	--	--	--	< 0.066 U	
o-Xylene	mg/kg			--	--	--	--	--	< 0.0063 U	--	--	--	< 0.06 U	< 0.0011 U	
p-Isopropyltoluene	mg/kg	320	SL-1	--	--	--	--	--	< 0.025 U	--	--	--	--	< 0.066 U	
sec-Butylbenzene	mg/kg	8000	SL-1	--	--	--	--	--	< 0.025 U	--	--	--	--	< 0.066 U	
Styrene	mg/kg	4.7	SL-9	--	--	--	--	--	< 0.0063 U	--	--	--	--	< 0.0011 U	
tert-Butylbenzene	mg/kg	8000	SL-1	--	--	--	--	--	< 0.025 U	--	--	--	--	< 0.066 U	
Tetrachloroethene (PCE)	mg/kg	0.0016	SL-6	--	--	--	--	--	**0.002**	--	--	--	--	**0.002**	
trans-1,2-Dichloroethene	mg/kg	0.32	SL-6	--	--	--	--	--	< 0.0063 U	--	--	--	--	< 0.0011 U	
trans-1,3-Dichloropropene	mg/kg	0.00038	SL-6	--	--	--	--	--	< 0.0063 U	--	--	--	--	< 0.0011 U	
Trichloroethene (TCE)	mg/kg	0.00027	SL-6	--	--	--	--	--	< 0.0063 U	--	--	--	--	< 0.0011 U	
Trichlorofluoromethane	mg/kg	24000	SL-1	--	--	--	--	--	< 0.0063 U	--	--	--	--	< 0.0011 U	
Vinyl Acetate	mg/kg	80000	SL-1	--	--	--	--	--	--	--	--	--	--	< 0.0057 U	
Vinyl Chloride	mg/kg	5.6E-05	SL-6	--	--	--	--	--	< 0.0063 U	--	--	--	--	< 0.0011 U	
Conventionals															
Total Organic Carbon	%			--	--	--	--	--	--	--	--	--	--	--	
Total Solids	%			**87.5**	**76.4**	**78.6**	**85.9**	**77.4**	**76.6**	--	--	--	--	--	

Table I.3.C. Saturated Soil Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL

Analyte	Unit	Preliminary RI SL	Basis of SL	SB-22		SB-23	SB-24	SB-25	SB-26			SB-27		SB-28
Location				SB-22		SB-23	SB-24	SB-25	SB-26			SB-27		SB-28
Date				07/27/11	07/27/11	07/28/11	07/28/11	07/28/11	03/04/21	03/04/21	03/04/21	03/09/21	03/09/21	03/01/21
Sample				SB22-10.0-072711	SB22-14.0-072711	SB23-8.0-072811	SB24-7.0-072811	SB25-10.0-072811	SB-26-5.5-6.5	SB-26-12.5	SB-26-18-20	SB-27-8-9	SB-27-18-20	SB-28-14.5-15.5
Depth				10 - 10 ft	14 - 14 ft	8 - 8 ft	7 - 7 ft	10 - 10 ft	5.5 - 6.5 ft	12.5 - 12.5 ft	18 - 20 ft	8 - 9 ft	18 - 20 ft	14.5 - 15.5 ft
Geologic Unit									Fill	Tidal Flat	Alluvial	Alluvial	Alluvial	Alluvial
Metals, Total														
Arsenic	mg/kg	7.3	SL-10	< 13 U	--	--	--	--	**1.6**	--	**1.4**	**4.06 J**	**1.79**	**2 J**
Barium	mg/kg	250	SL-10	**35**	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/kg	0.77	SL-10	< 0.65 U	--	--	--	--	**0.04 J**	--	**0.05 J**	**0.17**	< 0.11 U	< 0.12 U
Chromium	mg/kg	67	SL-9	**25**	--	--	--	--	**35.4**	--	**8.48**	**69.2**	**9.65**	**8.91**
Copper	mg/kg	36	SL-10	--	--	--	--	--	**11.3**	--	**8.6**	**38.2**	**9.8**	**9.02 J**
Lead	mg/kg	81	SL-6	**23**	--	--	--	--	**7.02 J**	--	**1.19**	**11 J**	**1.38**	**1.39 J**
Mercury	mg/kg	0.07	SL-10	< 0.32 U	--	--	--	--	< 0.0301 U	--	--	**0.0162 J**	--	**0.00968 J**
Nickel	mg/kg	48	SL-10	--	--	--	--	--	**5.63**	--	**7.16**	**14.7 J**	**9.62**	**8.17**
Selenium	mg/kg	0.78	SL-10	< 13 U	--	--	--	--	--	--	--	--	--	--
Silver	mg/kg	0.61	SL-10	< 0.65 U	--	--	--	--	--	--	--	--	--	--
Zinc	mg/kg	85	SL-10	--	--	--	--	--	**24.8**	--	**19**	**53.2**	**26.4**	**23.9**
Butyl Tins														
Dibutyltin Ion	mg/kg			--	--	--	--	--	--	--	--	**0.00936**	--	< 0.0057 U
Monobutyltin	mg/kg			--	--	--	--	--	--	--	--	**0.00473**	--	< 0.00402 U
Tetrabutyltin	mg/kg			--	--	--	--	--	--	--	--	< 0.00498 U	--	< 0.00493 U
Tributyltin Ion	mg/kg	0.00011	SL-7	--	--	--	--	--	--	--	--	**0.01**	--	< 0.00381 U
Polychlorinated Biphenyl (PCB) Aroclors														
Total PCB Aroclors (ND = 0)	mg/kg	5.5E-07	SL-6	**3.1 A**	--	--	--	--	**0.0975**	**0.0909**	< 0.004 U	**0.0125 J**	< 0.004 U	< 0.004 U
Polychlorinated Biphenyl (PCB) Congeners														
Total PCB Congeners (ND = 0)	mg/kg	5.5E-07	SL-6	--	--	--	--	--	--	--	--	--	--	--
Total PCB TEQ (ND = 0)	mg/kg	3.5E-10	SL-6	--	--	--	--	--	--	--	--	--	--	--
Dioxins/Furans														
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	5.2E-06	SL-10	--	--	--	--	--	--	--	--	--	--	--
2,3,7,8-TCDD	mg/kg	5.2E-06	SL-10	--	--	--	--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)														
1-Methylnaphthalene	mg/kg	20	SL-1	**0.13**	--	--	--	--	< 0.00499 U	**0.00469 J**	--	< 0.0248 U	--	< 0.00497 U
2-Methylnaphthalene	mg/kg	0.039	SL-7	< 0.015 U	--	--	--	--	< 0.00499 U	**0.00714**	--	< 0.0248 U	--	< 0.00497 U
Acenaphthene	mg/kg	0.028	SL-7	**0.21**	--	--	--	--	< 0.00499 U	**0.00081 J**	--	< 0.0248 U	--	< 0.00497 U
Acenaphthylene	mg/kg	1.3	SL-8	**0.052**	--	--	--	--	< 0.00499 U	**0.00119 J**	--	< 0.0248 U	--	< 0.00497 U
Anthracene	mg/kg	0.051	SL-7	**0.51**	--	--	--	--	< 0.00499 U	**0.001 J**	--	< 0.0248 U	--	< 0.00497 U
Benzo(g,h,i)perylene	mg/kg	0.67	SL-8	**0.035**	--	--	--	--	**0.00146 J**	**0.00223 J**	--	**0.0152 J**	--	< 0.00497 U
Fluoranthene	mg/kg	0.09	SL-7	**0.46**	--	--	--	--	**0.00074 J**	**0.00378 J**	--	**0.0106 J**	--	< 0.00497 U
Fluorene	mg/kg	0.029	SL-7	**0.45**	--	--	--	--	< 0.00499 U	**0.00241 J**	--	< 0.0248 U	--	< 0.00497 U
Naphthalene	mg/kg	0.0021	SL-6	**0.12**	--	--	--	--	< 0.00536 U	**0.00445 J**	--	< 0.00472 U	--	< 0.00497 U
Phenanthrene	mg/kg	1.5	SL-8	**0.045**	--	--	--	--	< 0.00499 U	**0.00906**	--	**0.012 J**	--	**0.00149 J**
Pyrene	mg/kg	0.14	SL-7	**0.45**	--	--	--	--	**0.001 J**	**0.00533**	--	**0.00767 J**	--	**0.00065 J**
Benz(a)anthracene	mg/kg	0.73	SL-9	**0.12**	--	--	--	--	< 0.00499 U	**0.00212 J**	--	< 0.0248 U	--	< 0.00497 U
Benzo(a)pyrene	mg/kg	1.6E-05	SL-6	**0.17**	--	--	--	--	< 0.00499 U	**0.00166 J**	--	**0.0103 J**	--	< 0.00497 U
Benzo(b)fluoranthene	mg/kg	44	SL-9	**0.081**	--	--	--	--	< 0.00499 U	**0.00214 J**	--	**0.0111 J**	--	< 0.00497 U
Benzo(j)fluoranthene	mg/kg			--	--	--	--	--	< 0.00499 U	**0.00115 J**	--	**0.00446 J**	--	< 0.00497 U
Benzo(j,k)fluoranthene	mg/kg			**0.066**	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	mg/kg	71	SL-9	--	--	--	--	--	< 0.00499 U	**0.00094 J**	--	< 0.0248 U	--	< 0.00497 U
Chrysene	mg/kg	1.4	SL-8	**0.19**	--	--	--	--	< 0.00499 U	**0.00405 J**	--	**0.0246 J**	--	< 0.00497 U
Dibenzo(a,h)anthracene	mg/kg	0.23	SL-8	**0.017**	--	--	--	--	< 0.00499 U	< 0.00498 U	--	< 0.0248 U	--	< 0.00497 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.6	SL-8	**0.029**	--	--	--	--	< 0.00499 U	**0.00135 J**	--	**0.00606 J**	--	< 0.00497 U
Total Benzofluoranthenes	mg/kg	1.1	SL-9	**0.147**	--	--	--	--	< 0.00997 U	**0.00411 J**	--	**0.0223 J**	--	< 0.00994 U
Total HPAHs (ND = 1/2 RDL)	mg/kg	1.1	SL-9	**1.62**	--	--	--	--	**0.0232 J**	**0.0272 J**	--	**0.127 J**	--	**0.0255 J**
Total LPAHs (ND = 1/2 RDL)	mg/kg	5.2	SL-8	**1.39**	--	--	--	--	< 0.00536 U	**0.0189 J**	--	**0.064 J**	--	**0.0139 J**
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	1.6E-05	SL-6	**0.203**	--	--	--	--	< 0.00377 U	**0.0026 J**	--	**0.016 J**	--	< 0.00375 U
Semi-Volatile Organic Compounds (SVOCs)														
1,2-Dinitrobenzene	mg/kg	8	SL-1	< 0.43 U	--	--	--	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	mg/kg	3.6E-05	SL-6	< 0.43 U	--	--	--	--	--	--	--	--	--	--
1,3-Dinitrobenzene	mg/kg	8	SL-1	< 0.43 U	--	--	--	--	--	--	--	--	--	--
1,4-Dinitrobenzene	mg/kg	8	SL-1	< 0.43 U	--	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	mg/kg	2400	SL-1	< 0.43 U	--	--	--	--	--	--	--	--	--	--
2,3,5,6-Tetrachlorophenol	mg/kg			< 0.43 U	--	--	--	--	--	--	--	--	--	--
2,3-Dichloroaniline	mg/kg			< 0.43 U	--	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	mg/kg	1.1	SL-6	< 0.43 U	--	--	--	--	< 0.0996 U	< 0.1 U	--	< 0.1 U	--	< 0.0996 U
2,4,6-Trichlorophenol	mg/kg	0.00019	SL-6	< 0.43 U	--	--	--	--	< 0.0996 U	< 0.1 U	--	< 0.1 U	--	< 0.0996 U
2,4-Dichlorophenol	mg/kg	0.0043	SL-6	< 0.43 U	--	--	--	--	< 0.0996 U	< 0.1 U	--	< 0.1 U	--	< 0.0996 U
2,4-Dimethylphenol	mg/kg	0.0023	SL-7	< 4.3 U	--	--	--	--	< 0.0996 U	< 0.1 U	--	< 0.1 U	--	< 0.0996 U
2,4-Dinitrophenol	mg/kg	0.029	SL-6	< 2.2 U	--	--	--	--	< 0.199 UJ	< 0.2 UJ	--	< 0.2 UJ	--	< 0.199 UJ
2,4-Dinitrotoluene	mg/kg	0.00016	SL-6	< 0.43 U	--	--	--	--	< 0.0996 U	< 0.1 U	--	< 0.1 U	--	< 0.0996 U
2,6-Dinitrotoluene	mg/kg	0.67	SL-1	< 0.43 U	--	--	--	--	< 0.0996 U	< 0.1 U	--	< 0.1 U	--	< 0.0996 U
2-Chloronaphthalene	mg/kg	0.28	SL-6	< 0.43 U	--	--	--	--	< 0.0199 U	< 0.02 U	--	< 0.02 U	--	< 0.0199 U
2-Chlorophenol	mg/kg	0.011	SL-6	< 0.43 U	--	--	--	--	< 0.0199 U	< 0.02 U	--	< 0.02 U	--	< 0.0199 U
2-Methylphenol	mg/kg	0.0058	SL-7	< 0.43 U	--	--	--	--	< 0.0199 U	< 0.02 U	--	< 0.02 U	--	< 0.0199 U
2-Nitroaniline	mg/kg	800	SL-1	< 0.43 U	--	--	--	--	< 0.0996 U	< 0.1 U	--	< 0.1 U	--	< 0.0996 U
2-Nitrophenol	mg/kg			< 0.43 U	--	--	--	--	< 0.0199 U	< 0.02 U	--	< 0.02 U	--	< 0.0199 U
3 & 4 Methylphenol	mg/kg			< 0.43 U	--	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	mg/kg	1.1E-05	SL-6	< 4.3 U	--	--	--	--	< 0.0996 U	< 0.1 U	--	< 0.1 U	--	< 0.0996 U
3-Nitroaniline	mg/kg			< 0.43 U	--	--	--	--	< 0.0996 U	< 0.1 U	--	< 0.1 U	--	< 0.0996 U
4,6-Dinitro-2-methylphenol	mg/kg	0.0073	SL-6	< 2.2 U	--	--	--	--	< 0.199 UJ	< 0.2 U	--	< 0.2 U	--	< 0.199 U
4-Bromophenyl phenyl ether	mg/kg			< 0.43 U	--	--	--	--	< 0.0199 U	< 0.02 U	--	< 0.02 U	--	< 0.0199 U
4-Chloro-3-methylphenol	mg/kg	0.028	SL-6	< 0.43 U	--	--	--	--	< 0.0996 U	< 0.1 U	--	< 0.1 U	--	< 0.0996 U
4-Chloroaniline	mg/kg	5	SL-1	< 0.43 U	--	--	--	--	< 0.0996 U	< 0.1 U	--	< 0.1 U	--	< 0.0996 U
4-Chlorophenyl phenyl ether	mg/kg			< 0.43 U	--	--	--	--	< 0.0199 U	< 0.02 U	--	< 0.02 U	--	< 0.0199 UJ
4-Methylphenol	mg/kg	0.062	SL-7	--	--	--	--	--	< 0.0199 U	< 0.02 U	--	< 0.02 U	--	< 0.0199 UJ
4-Nitroaniline	mg/kg	22	SL-9	< 0.43 U	--	--	--	--	< 0.0996 U	< 0.1 U	--	< 0.1 U	--	< 0.0996 U
4-Nitrophenol	mg/kg			< 0.43 U	--	--	--	--	< 0.0996 U	< 0.1 U	--	< 0.1 U	--	< 0.0996 UJ
Aniline	mg/kg	180	SL-1	< 0.43 U	--	--	--	--	--	--	--	--	--	--
Benzidine	mg/kg	3.4E-08	SL-6	< 4.3 U	--	--	--	--	--	--	--	--	--	--
Benzoic acid	mg/kg	0.17	SL-7	--	--	--	--	--	< 0.199 UJ	**0.305**	--	< 0.2 UJ	--	< 0.199 U
Benzyl alcohol	mg/kg	0.017	SL-7	< 0.43 U	--	--	--	--	< 0.0199 U	< 0.02 U	--	< 0.02 U	--	< 0.0199 UJ
Benzyl butyl phthalate	mg/kg	0.00018	SL-6	< 4.3 U	--	--	--	--	< 0.0199 U	< 0.02 U	--	< 0.02 U	--	< 0.0199 U
Bis(2-chloro-1-methylethyl) ether	mg/kg	0.038	SL-6	--	--	--	--	--	< 0.0199 U	< 0.02 U	--	< 0.02 U	--	< 0.0199 U
Bis(2-chloroethoxy)methane	mg/kg	240	SL-1	< 0.43 U	--	--	--	--	< 0.0199 U	< 0.02 U	--	< 0.02 U	--	< 0.0199 U
Bis(2-chloroethyl) ether	mg/kg	2.2E-05	SL-6	< 0.43 U	--	--	--	--	< 0.0199 U	< 0.02 U	--	< 0.02 U	--	< 0.0199 U
bis(2-Chloroisopropyl)ether	mg/kg			< 0.43 U	--	--	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) adipate	mg/kg	830	SL-1	< 0.43 U	--	--	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate	mg/kg	0.0051	SL-6	**0.74**	--	--	--	--	< 0.0498 U	< 0.05 U	--	**0.03 J**	--	< 0.0498 U
Carbazole	mg/kg	79	SL-9	< 0.43 U	--	--	--	--	< 0.0199 U	< 0.02 U	--	< 0.02 U	--	< 0.0199 U
Dibenzofuran	mg/kg	0.029	SL-7	< 0.43 U	--	--	--	--	< 0.00499 U	**0.00241 J**	--	< 0.0248 U	--	< 0.00497 U
Diethyl phthalate	mg/kg	0.034	SL-7	< 2.2 U	--	--	--	--	**0.124**	< 0.02 U	--	< 0.02 U	--	< 0.0199 U
Dimethyl phthalate	mg/kg	0.019	SL-7	< 0.43 U	--	--	--	--	< 0.0199 U	< 0.02 U	--	< 0.02 U	--	< 0.0199 U
Di-n-butyl phthalate	mg/kg	0.011	SL-9	< 4.3 U	--	--	--	--	< 0.0199 U	< 0.02 U	--	**0.006 J**	--	< 0.0199 U
Di-n-octyl phthalate	mg/kg	0.33	SL-7	< 0.43 U	--	--	--	--	< 0.0199 U	< 0.02 U	--	< 0.02 U	--	< 0.0199 U
Hexachlorobenzene	mg/kg	4E-07	SL-6	< 0.43 U	--	--	--	--	< 0.00249 U	< 0.0005 U	--	< 0.02 U	--	< 0.0199 U
Hexachlorobutadiene	mg/kg	1.1E-05	SL-6	< 0.38 U	--	--	--	--	< 0.00249 U	< 0.0005 U	--	< 0.00472 U	--	< 0.00707 U
Hexachlorocyclopentadiene	mg/kg	0.0017	SL-6	< 0.43 U	--	--	--	--	< 0.0996 UJ	< 0.1 UJ	--	< 0.1 UJ	--	< 0.0996 UJ
Hexachloroethane	mg/kg	9.7E-06	SL-6	< 0.43 U	--	--	--	--	< 0.0199 U	< 0.02 U	--	< 0.02 U	--	< 0.0199 U
Isophorone	mg/kg	0.039	SL-6	< 0.43 U	--	--	--	--	< 0.0199 U	< 0.02 U	--	< 0.02 U	--	< 0.0199 UJ
Nitrobenzene	mg/kg	0.041	SL-6	< 0.43 U	--	--	--	--	< 0.0199 U	< 0.02 U	--	< 0.02 U	--	< 0.0199 U
N-Nitrosodimethylamine	mg/kg	0.00011	SL-6	< 0.43 U	--	--	--	--	--	--	--	--	--	--
N-Nitroso-di-n-propylamine	mg/kg	3.3E-05	SL-6	< 0.43 U	--	--	--	--	< 0.0199 U	< 0.02 U	--	< 0.02 U	--	< 0.0199 U
N-Nitrosodiphenylamine	mg/kg	0.0016	SL-7	< 0.43 U	--	--	--	--	< 0.0199 U	< 0.02 U	--	< 0.02 U	--	< 0.0199 U
Pentachlorophenol	mg/kg	1.8E-06	SL-6	< 2.2 U	--	--	--	--	< 0.0996 UJ	< 0.1 UJ	--	< 0.1 UJ	--	< 0.0996 UJ
Phenol	mg/kg	0.048	SL-7	< 0.43 U	--	--	--	--	< 0.0199 U	**0.0129 J**	--	< 0.02 U	--	< 0.0199 U
Pyridine	mg/kg	80	SL-1	< 4.3 U	--	--	--	--	--	--	--	--	--	--

Table I.3.C. Saturated Soil Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL

Location				SB-22		SB-23	SB-24	SB-25	SB-26			SB-27		SB-28
Date				07/27/11	07/27/11	07/28/11	07/28/11	07/28/11	03/04/21	03/04/21	03/04/21	03/09/21	03/09/21	03/01/21
Sample				SB22-10.0-072711	SB22-14.0-072711	SB23-8.0-072811	SB24-7.0-072811	SB25-10.0-072811	SB-26-5.5-6.5	SB-26-12.5	SB-26-18-20	SB-27-8-9	SB-27-18-20	SB-28-14.5-15.5
Depth				10 - 10 ft	14 - 14 ft	8 - 8 ft	7 - 7 ft	10 - 10 ft	5.5 - 6.5 ft	12.5 - 12.5 ft	18 - 20 ft	8 - 9 ft	18 - 20 ft	14.5 - 15.5 ft
Geologic Unit									Fill	Tidal Flat	Alluvial	Alluvial	Alluvial	Alluvial
Analyte	Unit	Preliminary RI SL	Basis of SL											
Pesticides														
2,4'-DDD	mg/kg			--	--	--	--	--	< 0.00498 U	< 0.001 U	--	--	--	--
2,4'-DDE	mg/kg			--	--	--	--	--	< 0.00498 U	< 0.004 U	--	--	--	--
2,4'-DDT	mg/kg			--	--	--	--	--	< 0.00498 U	< 0.001 U	--	--	--	--
4,4'-DDD	mg/kg	3.6E-07	SL-6	< 0.013 U	--	--	--	--	< 0.00498 U	< 0.001 U	--	--	--	--
4,4'-DDE	mg/kg	7.6E-08	SL-6	**0.19**	--	--	--	--	< 0.00498 U	**0.00323**	--	--	--	--
4,4'-DDT	mg/kg	8.1E-07	SL-6	< 0.013 U	--	--	--	--	< 0.00498 U	< 0.001 U	--	--	--	--
Aldrin	mg/kg	2E-09	SL-6	**3.5**	--	--	--	--	**0.015**	< 0.0005 U	--	--	--	--
Alpha-BHC	mg/kg	9.8E-08	SL-6	< 0.0065 U	--	--	--	--	< 0.00249 U	< 0.0005 U	--	--	--	--
Beta-BHC	mg/kg	3.4E-06	SL-6	< 0.0065 U	--	--	--	--	< 0.00249 U	< 0.006 U	--	--	--	--
Chlordane	mg/kg	1.1E-06	SL-6	--	--	--	--	--	--	--	--	--	--	--
cis-Chlordane	mg/kg	5.3E-06	SL-7	< 0.013 U	--	--	--	--	< 0.00249 U	< 0.0005 U	--	--	--	--
cis-Nonachlor	mg/kg			--	--	--	--	--	< 0.00498 U	< 0.001 U	--	--	--	--
Delta-BHC	mg/kg	0.0048	SL-1	**0.056 J**	--	--	--	--	< 0.00249 U	< 0.0005 U	--	--	--	--
Dieldrin	mg/kg	1.8E-09	SL-6	**0.082 J**	--	--	--	--	< 0.00498 U	< 0.001 U	--	--	--	--
Endosulfan I	mg/kg	6.1E-05	SL-6	< 0.0065 U	--	--	--	--	< 0.00249 U	< 0.0005 U	--	--	--	--
Endosulfan II	mg/kg	6.1E-05	SL-6	< 0.013 U	--	--	--	--	< 0.00498 U	< 0.001 U	--	--	--	--
Endosulfan Sulfate	mg/kg	0.1	SL-6	< 0.013 U	--	--	--	--	< 0.00498 U	< 0.001 U	--	--	--	--
Endrin	mg/kg	2.2E-05	SL-6	< 0.013 U	--	--	--	--	< 0.00498 U	< 0.001 UJ	--	--	--	--
Endrin Aldehyde	mg/kg	0.00012	SL-6	**0.036 J**	--	--	--	--	< 0.00498 U	< 0.001 U	--	--	--	--
Endrin ketone	mg/kg			< 0.013 U	--	--	--	--	< 0.00498 U	< 0.001 U	--	--	--	--
Heptachlor	mg/kg	3.3E-09	SL-6	**0.017**	--	--	--	--	< 0.00249 U	< 0.0005 U	--	--	--	--
Heptachlor Epoxide	mg/kg	2.5E-08	SL-6	< 0.0065 U	--	--	--	--	< 0.00249 U	< 0.003 U	--	--	--	--
Lindane	mg/kg	0.00021	SL-6	< 0.0065 U	--	--	--	--	< 0.00249 U	< 0.0005 U	--	--	--	--
Methoxychlor	mg/kg	0.0016	SL-6	< 0.013 U	--	--	--	--	< 0.0249 U	< 0.005 U	--	--	--	--
Mirex	mg/kg	0.00036	SL-6	--	--	--	--	--	< 0.00498 U	< 0.001 U	--	--	--	--
Oxychlordane	mg/kg			--	--	--	--	--	< 0.00498 U	< 0.001 U	--	--	--	--
Toxaphene	mg/kg	3.1E-06	SL-6	< 0.065 U	--	--	--	--	--	--	--	--	--	--
trans-Chlordane	mg/kg	5.3E-06	SL-7	< 0.013 U	--	--	--	--	< 0.00249 U	< 0.0005 U	--	--	--	--
trans-Nonachlor	mg/kg			--	--	--	--	--	< 0.00498 U	< 0.001 U	--	--	--	--
Total Petroleum Hydrocarbons (TPH)														
Gasoline Range Organics	mg/kg	30	SL-3	< 7.2 U	--	--	--	--	< 6.33 U	< 7.48 U	--	**7.64**	--	< 7.46 U
Diesel Range Organics	mg/kg	2000	SL-9	**1600 J**	< 32 U	< 27 U	< 28 U	< 28 U	< 59.1 U	< 65.1 U	--	< 60.2 U	--	< 62.1 U
Motor Oil Range Organics	mg/kg	2000	SL-9	**6700**	< 63 U	< 54 U	< 55 U	< 56 U	**186**	< 130 U	--	**284**	--	< 124 U
Diesel and Oil Extended Range Organics	mg/kg	2000	SL-9	**8300 J**	< 63 U	< 54 U	< 55 U	< 56 U	**186**	< 130 U	--	**284**	--	< 124 U
Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)														
Benzene	mg/kg	0.00056	SL-6	< 0.076 U	--	--	--	--	< 0.00107 U	< 0.00113 U	--	< 0.00094 U	--	< 0.00141 U
Toluene	mg/kg	0.044	SL-6	< 0.38 U	--	--	--	--	< 0.00107 U	< 0.00113 U	--	< 0.00094 U	--	< 0.00141 U
Ethylbenzene	mg/kg	0.01	SL-6	< 0.076 U	--	--	--	--	< 0.00107 U	< 0.00113 U	--	< 0.00094 U	--	< 0.00141 U
Total Xylenes	mg/kg	0.055	SL-6	< 0.15 U	--	--	--	--	< 0.00214 U	< 0.00226 U	--	< 0.00189 U	--	< 0.00283 U
Volatile Organic Compounds (VOCs)														
1,1,1,2-Tetrachloroethane	mg/kg	38	SL-1	< 0.076 U	--	--	--	--	< 0.00107 U	< 0.00113 U	--	< 0.00094 U	--	< 0.00141 U
1,1,1-Trichloroethane	mg/kg	21	SL-6	< 0.076 U	--	--	--	--	< 0.00107 U	< 0.00113 U	--	< 0.00094 U	--	< 0.00141 U
1,1,2 - Trichlorotrifluoroethane	mg/kg	2400000	SL-1	--	--	--	--	--	< 0.00214 U	< 0.00226 U	--	< 0.00189 U	--	< 0.00283 U
1,1,2,2-Tetrachloroethane	mg/kg	0.00011	SL-6	< 0.076 U	--	--	--	--	< 0.00107 U	< 0.00113 U	--	< 0.00094 U	--	< 0.00141 U
1,1,2-Trichloroethane	mg/kg	0.00033	SL-6	< 0.076 U	--	--	--	--	< 0.00107 U	< 0.00113 U	--	< 0.00094 U	--	< 0.00141 U
1,1-Dichloroethane	mg/kg	180	SL-1	< 0.076 U	--	--	--	--	< 0.00107 U	< 0.00113 U	--	< 0.00094 U	--	< 0.00141 U
1,1-Dichloroethene	mg/kg	1.4	SL-6	< 0.076 U	--	--	--	--	< 0.00107 U	< 0.00113 U	--	< 0.00094 U	--	< 0.00141 U
1,1-Dichloropropene	mg/kg			< 0.076 U	--	--	--	--	< 0.00107 U	< 0.00113 U	--	< 0.00094 U	--	< 0.00141 U
1,2,3-Trichlorobenzene	mg/kg	64	SL-9	< 0.076 U	--	--	--	--	< 0.00536 U	< 0.00565 U	--	< 0.00472 U	--	< 0.00707 U
1,2,3-Trichloropropane	mg/kg	0.0063	SL-1	< 0.076 U	--	--	--	--	< 0.00214 U	< 0.00226 U	--	< 0.00189 U	--	< 0.00283 U
1,2,4-Trichlorobenzene	mg/kg	7.2E-05	SL-6	< 0.076 U	--	--	--	--	< 0.00536 U	< 0.00565 U	--	< 0.00472 U	--	< 0.00707 U
1,2,4-Trimethylbenzene	mg/kg	800	SL-1	< 0.076 U	--	--	--	--	**0.00039 J**	< 0.00113 U	--	< 0.00094 U	--	< 0.00141 U
1,2-Dibromo-3-chloropropane	mg/kg	0.23	SL-1	< 0.38 U	--	--	--	--	< 0.00536 U	< 0.00565 U	--	< 0.00472 U	--	< 0.00707 U
1,2-Dibromoethane (EDB)	mg/kg	0.5	SL-1	< 0.076 U	--	--	--	--	< 0.00107 U	< 0.00113 U	--	< 0.00094 U	--	< 0.00141 U
1,2-Dichlorobenzene	mg/kg	0.003	SL-7	**0.11**	--	--	--	--	< 0.00107 U	< 0.00113 U	--	< 0.00094 U	--	< 0.00141 U
1,2-Dichloroethane (EDC)	mg/kg	0.024	SL-6	< 0.076 U	--	--	--	--	< 0.00107 U	< 0.00113 U	--	< 0.00094 U	--	< 0.00141 U
1,2-Dichloropropane	mg/kg	0.001	SL-6	< 0.076 U	--	--	--	--	< 0.00107 U	< 0.00113 U	--	< 0.00094 U	--	< 0.00141 U
1,3,5-Trimethylbenzene	mg/kg	800	SL-1	< 0.076 U	--	--	--	--	**0.00035 J**	< 0.00113 U	--	< 0.00094 U	--	< 0.00141 U
1,3-Dichlorobenzene	mg/kg	0.0013	SL-6	< 0.076 U	--	--	--	--	< 0.00107 U	< 0.00113 U	--	< 0.00094 U	--	< 0.00141 U
1,3-Dichloropropane	mg/kg	0.00043	SL-6	< 0.076 U	--	--	--	--	< 0.00107 U	< 0.00113 U	--	< 0.00094 U	--	< 0.00141 U
1,4-Dichloro-2-Butene	mg/kg			--	--	--	--	--	< 0.00536 U	< 0.00565 U	--	< 0.00472 U	--	< 0.00707 U
1,4-Dichlorobenzene	mg/kg	0.0081	SL-7	< 0.076 U	--	--	--	--	< 0.00107 U	< 0.00113 U	--	**0.0005 J**	--	< 0.00141 U
2,2-Dichloropropane	mg/kg			< 0.076 U	--	--	--	--	< 0.00107 U	< 0.00113 U	--	< 0.00094 U	--	< 0.00141 U
2-Butanone	mg/kg	350	SL-9	< 0.38 U	--	--	--	--	**0.00493 J**	**0.00972**	--	< 0.00472 U	--	< 0.00707 U
2-Chloroethyl Vinyl Ether	mg/kg			< 0.38 U	--	--	--	--	< 0.00536 U	< 0.00565 UJ	--	< 0.00472 UJ	--	< 0.00707 UJ
2-Chlorotoluene	mg/kg	1600	SL-1	< 0.076 U	--	--	--	--	< 0.00107 U	< 0.00113 U	--	< 0.00094 U	--	< 0.00141 U
2-Hexanone	mg/kg	400	SL-1	< 0.38 U	--	--	--	--	< 0.00536 U	< 0.00565 U	--	< 0.00472 U	--	< 0.00707 U
2-Pentanone	mg/kg			--	--	--	--	--	< 0.00536 U	< 0.00565 UJ	--	< 0.00472 U	--	< 0.00707 UJ
4-Chlorotoluene	mg/kg	1600	SL-1	< 0.076 U	--	--	--	--	< 0.00107 U	< 0.00113 U	--	< 0.00094 U	--	< 0.00141 U
4-Methyl-2-pentanone	mg/kg	6400	SL-1	< 0.38 U	--	--	--	--	< 0.00536 U	< 0.00565 U	--	< 0.00472 U	--	< 0.00707 U
Acetone	mg/kg	1.2	SL-9	< 0.38 U	--	--	--	--	**0.0658**	**0.0684**	--	**0.0833**	--	**0.0735 J**
Acrolein	mg/kg	0.00032	SL-6	--	--	--	--	--	< 0.00536 U	< 0.00565 U	--	< 0.00472 U	--	< 0.00707 U
Acrylonitrile	mg/kg	8.3E-06	SL-6	--	--	--	--	--	< 0.00536 U	< 0.00565 U	--	< 0.00472 UJ	--	< 0.00707 U
Bromobenzene	mg/kg	640	SL-1	< 0.076 U	--	--	--	--	< 0.00107 U	< 0.00113 U	--	< 0.00094 U	--	< 0.00141 U
Bromochloromethane	mg/kg			< 0.076 U	--	--	--	--	< 0.00107 U	< 0.00113 U	--	< 0.00094 U	--	< 0.00141 U
Bromodichloromethane	mg/kg	0.00089	SL-6	< 0.076 U	--	--	--	--	< 0.00107 U	< 0.00113 U	--	< 0.00094 U	--	< 0.00141 U
Bromoform	mg/kg	0.005	SL-6	< 0.076 U	--	--	--	--	< 0.00107 U	< 0.00113 U	--	< 0.00094 U	--	< 0.00141 U
Bromomethane	mg/kg	0.079	SL-6	< 0.076 U	--	--	--	--	< 0.00107 U	< 0.00113 U	--	< 0.00094 U	--	< 0.00141 U
Carbon Disulfide	mg/kg	0.81	SL-9	< 0.076 U	--	--	--	--	< 0.00107 U	**0.00095 J**	--	< 0.00094 U	--	< 0.00141 U
Carbon Tetrachloride	mg/kg	0.00015	SL-6	< 0.076 U	--	--	--	--	< 0.00107 U	< 0.00113 U	--	< 0.00094 U	--	< 0.00141 U
Chlorobenzene	mg/kg	0.1	SL-6	< 0.076 U	--	--	--	--	< 0.00107 U	< 0.00113 U	--	< 0.00094 U	--	< 0.00141 U
Chloroethane	mg/kg			< 0.38 U	--	--	--	--	< 0.00214 U	< 0.00226 U	--	< 0.00189 U	--	< 0.00283 U
Chloroform	mg/kg	0.052	SL-6	< 0.076 U	--	--	--	--	< 0.00107 U	< 0.00113 U	--	< 0.00094 U	--	< 0.00141 U
Chloromethane	mg/kg			< 0.38 U	--	--	--	--	< 0.00107 U	< 0.00113 U	--	< 0.00094 U	--	< 0.00141 U
cis-1,2-Dichloroethene (DCE)	mg/kg	24	SL-9	< 0.076 U	--	--	--	--	< 0.00107 U	< 0.00113 UJ	--	< 0.00094 U	--	< 0.00141 U
cis-1,3-Dichloropropene	mg/kg	0.00038	SL-6	< 0.076 U	--	--	--	--	< 0.00107 U	< 0.00113 U	--	< 0.00094 U	--	< 0.00141 U
Dibromochloromethane	mg/kg	0.00070	SL-6	< 0.076 U	--	--	--	--	< 0.00107 U	< 0.00113 U	--	< 0.00094 U	--	< 0.00141 U
Dibromomethane	mg/kg	800	SL-1	< 0.076 U	--	--	--	--	< 0.00107 U	< 0.00113 U	--	< 0.00094 U	--	< 0.00141 U
Dichlorodifluoromethane	mg/kg	16000	SL-1	< 0.076 U	--	--	--	--	< 0.00107 U	< 0.00113 U	--	< 0.00094 U	--	< 0.00141 U
Isopropylbenzene	mg/kg	8000	SL-1	< 0.076 U	--	--	--	--	< 0.00107 U	< 0.00113 U	--	< 0.00094 U	--	< 0.00141 U
m,p-Xylenes	mg/kg			< 0.15 U	--	--	--	--	< 0.00214 U	< 0.00226 U	--	< 0.00189 U	--	< 0.00283 U
Methyl tert-butyl ether (MTBE)	mg/kg	560	SL-1	< 0.076 U	--	--	--	--	< 0.00107 U	< 0.00113 U	--	< 0.00094 U	--	< 0.00141 U
Methylene Chloride	mg/kg	0.030	SL-6	< 0.76 U	--	--	--	--	< 0.00536 U	< 0.00565 U	--	< 0.00472 U	--	< 0.00707 U
Methyliodide	mg/kg			< 0.38 U	--	--	--	--	< 0.00107 U	< 0.00113 U	--	< 0.00094 U	--	< 0.00141 U
n-Butylbenzene	mg/kg	4000	SL-1	**0.17**	--	--	--	--	< 0.00107 U	< 0.00113 U	--	< 0.00094 U	--	< 0.00141 U
n-Hexane	mg/kg	4800	SL-1	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	8000	SL-1	< 0.076 U	--	--	--	--	< 0.00107 U	< 0.00113 U	--	< 0.00094 U	--	< 0.00141 U
o-Xylene	mg/kg			< 0.076 U	--	--	--	--	< 0.00107 U	< 0.00113 U	--	< 0.00094 U	--	< 0.00141 U
p-Isopropyltoluene	mg/kg	320	SL-1	< 0.076 U	--	--	--	--	< 0.00107 U	< 0.00113 U	--	< 0.00094 U	--	< 0.00141 U
sec-Butylbenzene	mg/kg	8000	SL-1	**0.14**	--	--	--	--	< 0.00107 U	< 0.00113 U	--	< 0.00094 U	--	< 0.00141 U
Styrene	mg/kg	4.7	SL-9	< 0.076 U	--	--	--	--	< 0.00107 U	< 0.00113 U	--	< 0.00094 U	--	< 0.00141 U
tert-Butylbenzene	mg/kg	8000	SL-1	< 0.076 U	--	--	--	--	< 0.00107 U	< 0.00113 U	--	< 0.00094 U	--	< 0.00141 U
Tetrachloroethene (PCE)	mg/kg	0.0016	SL-6	< 0.076 U	--	--	--	--	**0.00108**	**0.00192**	--	< 0.00094 U	--	< 0.00141 U
trans-1,2-Dichloroethene	mg/kg	0.32	SL-6	< 0.076 U	--	--	--	--	< 0.00107 U	< 0.00113 U	--	< 0.00094 U	--	< 0.00141 U
trans-1,3-Dichloropropene	mg/kg	0.00038	SL-6	< 0.076 U	--	--	--	--	< 0.00107 U	< 0.00113 U	--	< 0.00094 U	--	< 0.00141 U
Trichloroethene (TCE)	mg/kg	0.00027	SL-6	< 0.076 U	--	--	--	--	< 0.00107 U	< 0.00113 U	--	< 0.00094 U	--	< 0.00141 U
Trichlorofluoromethane	mg/kg	24000	SL-1	< 0.076 U	--	--	--	--	< 0.00214 U	< 0.00226 U	--	< 0.00189 U	--	< 0.00283 U
Vinyl Acetate	mg/kg	80000	SL-1	< 0.38 U	--	--	--	--	< 0.00536 U	< 0.00565 U	--	< 0.00472 U	--	< 0.00707 U
Vinyl Chloride	mg/kg	5.6E-05	SL-6	< 0.076 U	--	--	--	--	< 0.00107 U	< 0.00113 U	--	< 0.00094 U	--	< 0.00141 U
Conventionals														
Total Organic Carbon	%			--	--	--	--	--	< 0.02 U	**0.52**	--	**0.38**	--	< 0.05 U
Total Solids	%			--	--	--	--	--	**82.2**	**77.4**	--	**74.3**	--	**77.7**

Table I.3.C. Saturated Soil Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL

				Location	SB-30			SB-31			SB-32	SB-33	SB-34
				Date	03/01/21	03/01/21	03/01/21	03/01/21	03/01/21	03/01/21	03/08/21	03/03/21	03/01/21
				Sample	SB-30-11.5-12.5	SB-30-12.5-14.5	SB-30-23-25	SB-31-10-11	SB-31-13-14.5	SB-31-19-20	SB-32-7-8	SB-33-5.5-6.5	SB-34-5.5-6.5
				Depth	11.5 - 12.5 ft	12.5 - 14.5 ft	23 - 25 ft	10 - 11 ft	13 - 14.5 ft	19 - 20 ft	7 - 8 ft	5.5 - 6.5 ft	5.5 - 6.5 ft
				Geologic Unit	Fill	Fill	Alluvial	Fill	Tidal Flat	Alluvial	Tidal Flat	Tidal Flat	Fill
Analyte	Unit	Preliminary RI SL	Basis of SL										
Metals, Total													
Arsenic	mg/kg	7.3	SL-10	--	--	**2.27 J**	**4.78**	**3.05 J**	**1.53 J**	--	--	--
Barium	mg/kg	250	SL-10	--	--	--	--	--	--	--	--	--
Cadmium	mg/kg	0.77	SL-10	--	--	**0.05 J**	**0.12 J**	**0.05 J**	< 0.12 U	--	--	--
Chromium	mg/kg	67	SL-9	--	--	**11.1**	**27.8**	**15**	**9.89**	--	--	--
Copper	mg/kg	36	SL-10	--	--	**12.1 J**	**27.3**	**20 J**	**10.1 J**	--	--	--
Lead	mg/kg	81	SL-6	--	--	**1.27 J**	**4.42**	**3.37 J**	**1.37 J**	--	--	--
Mercury	mg/kg	0.07	SL-10	--	--	**0.01 J**	--	**0.0285**	< 0.0271 U	--	--	--
Nickel	mg/kg	48	SL-10	--	--	**10.8**	**20.7**	**17.5**	**7.96**	--	--	--
Selenium	mg/kg	0.78	SL-10	--	--	--	--	--	--	--	--	--
Silver	mg/kg	0.61	SL-10	--	--	--	--	--	--	--	--	--
Zinc	mg/kg	85	SL-10	--	--	**21.3**	**35.3**	**29.2**	**22.2**	--	--	--
Butyl Tins													
Dibutyltin Ion	mg/kg			--	--	--	--	--	--	--	--	--
Monobutyltin	mg/kg			--	--	--	--	--	--	--	--	--
Tetrabutyltin	mg/kg			--	--	--	--	--	--	--	--	--
Tributyltin Ion	mg/kg	0.00011	SL-7	--	--	--	--	--	--	--	--	--
Polychlorinated Biphenyl (PCB) Aroclors													
Total PCB Aroclors (ND = 0)	mg/kg	5.5E-07	SL-6	--	--	< 0.004 U	--	< 0.004 U	**0.0026 J**	< 0.004 U	< 0.004 U	--
Polychlorinated Biphenyl (PCB) Congeners													
Total PCB Congeners (ND = 0)	mg/kg	5.5E-07	SL-6	--	--	--	--	--	--	--	--	--
Total PCB TEQ (ND = 0)	mg/kg	3.5E-10	SL-6	--	--	--	--	--	--	--	--	--
Dioxins/Furans													
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	5.2E-06	SL-10	--	--	--	--	--	--	--	--	--
2,3,7,8-TCDD	mg/kg	5.2E-06	SL-10	--	--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)													
1-Methylnaphthalene	mg/kg	20	SL-1	--	--	**0.00551**	--	**0.745**	< 0.0109 U	--	--	--
2-Methylnaphthalene	mg/kg	0.039	SL-7	--	--	< 0.00553 U	--	**0.284**	< 0.00948 U	--	--	--
Acenaphthene	mg/kg	0.028	SL-7	--	--	**0.00411 J**	--	**0.00443 J**	**0.0048 J**	--	--	--
Acenaphthylene	mg/kg	1.3	SL-8	--	--	< 0.00498 U	--	**0.00176 J**	< 0.00498 U	--	--	--
Anthracene	mg/kg	0.051	SL-7	--	--	**0.00087 J**	--	**0.0017 J**	< 0.00498 U	--	--	--
Benzo(g,h,i)perylene	mg/kg	0.67	SL-8	--	--	< 0.00498 U	--	**0.0014 J**	< 0.00498 U	--	--	--
Fluoranthene	mg/kg	0.09	SL-7	--	--	**0.00153 J**	--	< 0.00498 U	< 0.00498 U	--	--	--
Fluorene	mg/kg	0.029	SL-7	--	--	< 0.00498 U	--	**0.0072**	< 0.00498 U	--	--	--
Naphthalene	mg/kg	0.0021	SL-6	--	< 0.00642 UJ	< 0.00498 U	--	**0.0749**	< 0.00498 U	--	--	< 0.00612 U
Phenanthrene	mg/kg	1.5	SL-8	--	--	**0.0116**	--	**0.011**	**0.0204**	--	--	--
Pyrene	mg/kg	0.14	SL-7	--	--	**0.00277 J**	--	**0.00293 J**	**0.00279 J**	--	--	--
Benz(a)anthracene	mg/kg	0.73	SL-9	--	--	**0.00215 J**	--	**0.00111 J**	**0.00167 J**	--	--	--
Benzo(a)pyrene	mg/kg	1.6E-05	SL-6	--	--	**0.00112 J**	--	< 0.00498 U	**0.00116 J**	--	--	--
Benzo(b)fluoranthene	mg/kg	44	SL-9	--	--	**0.0016 J**	--	< 0.00498 U	**0.0015 J**	--	--	--
Benzo(j)fluoranthene	mg/kg			--	--	**0.00113 J**	--	< 0.00498 U	**0.0007 J**	--	--	--
Benzo(j,k)fluoranthene	mg/kg			--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	mg/kg	71	SL-9	--	--	< 0.00498 U	--	< 0.00498 U	< 0.00498 U	--	--	--
Chrysene	mg/kg	1.4	SL-8	--	--	**0.00368 J**	--	**0.00211 J**	**0.00334 J**	--	--	--
Dibenzo(a,h)anthracene	mg/kg	0.23	SL-8	--	--	< 0.00498 U	--	< 0.00498 U	< 0.00498 U	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	0.6	SL-8	--	--	< 0.00498 U	--	< 0.00498 U	< 0.00498 U	--	--	--
Total Benzofluoranthenes	mg/kg	1.1	SL-9	--	--	**0.00367 J**	--	< 0.00996 U	< 0.00996 U	--	--	--
Total HPAHs (ND = 1/2 RDL)	mg/kg	1.1	SL-9	--	--	**0.0239 J**	--	**0.025 J**	**0.0236 J**	--	--	--
Total LPAHs (ND = 1/2 RDL)	mg/kg	5.2	SL-8	--	--	**0.0241 J**	--	**0.101 J**	**0.0352 J**	--	--	--
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	1.6E-05	SL-6	--	--	**0.00228 J**	--	**0.00362 J**	**0.00226 J**	--	--	--
Semi-Volatile Organic Compounds (SVOCs)													
1,2-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	mg/kg	3.6E-05	SL-6	--	--	--	--	--	--	--	--	--
1,3-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--
1,4-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	mg/kg	2400	SL-1	--	--	--	--	--	--	--	--	--
2,3,5,6-Tetrachlorophenol	mg/kg			--	--	--	--	--	--	--	--	--
2,3-Dichloroaniline	mg/kg			--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	mg/kg	1.1	SL-6	--	--	--	--	--	--	--	--	--
2,4,6-Trichlorophenol	mg/kg	0.00019	SL-6	--	--	--	--	--	--	--	--	--
2,4-Dichlorophenol	mg/kg	0.0043	SL-6	--	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	mg/kg	0.0023	SL-7	--	--	--	--	--	--	--	--	--
2,4-Dinitrophenol	mg/kg	0.029	SL-6	--	--	--	--	--	--	--	--	--
2,4-Dinitrotoluene	mg/kg	0.00016	SL-6	--	--	--	--	--	--	--	--	--
2,6-Dinitrotoluene	mg/kg	0.67	SL-1	--	--	--	--	--	--	--	--	--
2-Chloronaphthalene	mg/kg	0.28	SL-6	--	--	--	--	--	--	--	--	--
2-Chlorophenol	mg/kg	0.011	SL-6	--	--	--	--	--	--	--	--	--
2-Methylphenol	mg/kg	0.0058	SL-7	--	--	--	--	--	--	--	--	--
2-Nitroaniline	mg/kg	800	SL-1	--	--	--	--	--	--	--	--	--
2-Nitrophenol	mg/kg			--	--	--	--	--	--	--	--	--
3 & 4 Methylphenol	mg/kg			--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	mg/kg	1.1E-05	SL-6	--	--	--	--	--	--	--	--	--
3-Nitroaniline	mg/kg			--	--	--	--	--	--	--	--	--
4,6-Dinitro-2-methylphenol	mg/kg	0.0073	SL-6	--	--	--	--	--	--	--	--	--
4-Bromophenyl phenyl ether	mg/kg			--	--	--	--	--	--	--	--	--
4-Chloro-3-methylphenol	mg/kg	0.028	SL-6	--	--	--	--	--	--	--	--	--
4-Chloroaniline	mg/kg	5	SL-1	--	--	--	--	--	--	--	--	--
4-Chlorophenyl phenyl ether	mg/kg			--	--	--	--	--	--	--	--	--
4-Methylphenol	mg/kg	0.062	SL-7	--	--	--	--	--	--	--	--	--
4-Nitroaniline	mg/kg	22	SL-9	--	--	--	--	--	--	--	--	--
4-Nitrophenol	mg/kg			--	--	--	--	--	--	--	--	--
Aniline	mg/kg	180	SL-1	--	--	--	--	--	--	--	--	--
Benzidine	mg/kg	3.4E-08	SL-6	--	--	--	--	--	--	--	--	--
Benzoic acid	mg/kg	0.17	SL-7	--	--	--	--	--	--	--	--	--
Benzyl alcohol	mg/kg	0.017	SL-7	--	--	--	--	--	--	--	--	--
Benzyl butyl phthalate	mg/kg	0.00018	SL-6	--	--	--	--	--	--	--	--	--
Bis(2-chloro-1-methylethyl) ether	mg/kg	0.038	SL-6	--	--	--	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	mg/kg	240	SL-1	--	--	--	--	--	--	--	--	--
Bis(2-chloroethyl) ether	mg/kg	2.2E-05	SL-6	--	--	--	--	--	--	--	--	--
bis(2-Chloroisopropyl)ether	mg/kg			--	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) adipate	mg/kg	830	SL-1	--	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate	mg/kg	0.0051	SL-6	--	--	--	--	--	--	--	--	--
Carbazole	mg/kg	79	SL-9	--	--	--	--	--	--	--	--	--
Dibenzofuran	mg/kg	0.029	SL-7	--	--	**0.00259 J**	--	**0.00205 J**	**0.00575**	--	--	--
Diethyl phthalate	mg/kg	0.034	SL-7	--	--	--	--	--	--	--	--	--
Dimethyl phthalate	mg/kg	0.019	SL-7	--	--	--	--	--	--	--	--	--
Di-n-butyl phthalate	mg/kg	0.011	SL-9	--	--	--	--	--	--	--	--	--
Di-n-octyl phthalate	mg/kg	0.33	SL-7	--	--	--	--	--	--	--	--	--
Hexachlorobenzene	mg/kg	4E-07	SL-6	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	1.1E-05	SL-6	--	< 0.00642 UJ	< 0.00747 U	--	< 39.7 U	< 0.00699 U	--	--	< 0.00612 U
Hexachlorocyclopentadiene	mg/kg	0.0017	SL-6	--	--	--	--	--	--	--	--	--
Hexachloroethane	mg/kg	9.7E-06	SL-6	--	--	--	--	--	--	--	--	--
Isophorone	mg/kg	0.039	SL-6	--	--	--	--	--	--	--	--	--
Nitrobenzene	mg/kg	0.041	SL-6	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine	mg/kg	0.00011	SL-6	--	--	--	--	--	--	--	--	--
N-Nitroso-di-n-propylamine	mg/kg	3.3E-05	SL-6	--	--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	mg/kg	0.0016	SL-7	--	--	--	--	--	--	--	--	--
Pentachlorophenol	mg/kg	1.8E-06	SL-6	--	--	--	--	--	--	--	--	--
Phenol	mg/kg	0.048	SL-7	--	--	--	--	--	--	--	--	--
Pyridine	mg/kg	80	SL-1	--	--	--	--	--	--	--	--	--

Table I.3.C. Saturated Soil Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL

Location				SB-30			SB-31			SB-32	SB-33	SB-34
Date				03/01/21	03/01/21	03/01/21	03/01/21	03/01/21	03/01/21	03/08/21	03/03/21	03/01/21
Sample				SB-30-11.5-12.5	SB-30-12.5-14.5	SB-30-23-25	SB-31-10-11	SB-31-13-14.5	SB-31-19-20	SB-32-7-8	SB-33-5.5-6.5	SB-34-5.5-6.5
Depth				11.5 - 12.5 ft	12.5 - 14.5 ft	23 - 25 ft	10 - 11 ft	13 - 14.5 ft	19 - 20 ft	7 - 8 ft	5.5 - 6.5 ft	5.5 - 6.5 ft
Geologic Unit				Fill	Fill	Alluvial	Fill	Tidal Flat	Alluvial	Tidal Flat	Tidal Flat	Fill
Analyte	Unit	Preliminary RI SL	Basis of SL									
Pesticides												
2,4'-DDD	mg/kg			--	--	--	--	--	--	--	--	--
2,4'-DDE	mg/kg			--	--	--	--	--	--	--	--	--
2,4'-DDT	mg/kg			--	--	--	--	--	--	--	--	--
4,4'-DDD	mg/kg	3.6E-07	SL-6	--	--	--	--	--	--	--	--	--
4,4'-DDE	mg/kg	7.6E-08	SL-6	--	--	--	--	--	--	--	--	--
4,4'-DDT	mg/kg	8.1E-07	SL-6	--	--	--	--	--	--	--	--	--
Aldrin	mg/kg	2E-09	SL-6	--	--	--	--	--	--	--	--	--
Alpha-BHC	mg/kg	9.8E-08	SL-6	--	--	--	--	--	--	--	--	--
Beta-BHC	mg/kg	3.4E-06	SL-6	--	--	--	--	--	--	--	--	--
Chlordane	mg/kg	1.1E-06	SL-6	--	--	--	--	--	--	--	--	--
cis-Chlordane	mg/kg	5.3E-06	SL-7	--	--	--	--	--	--	--	--	--
cis-Nonachlor	mg/kg			--	--	--	--	--	--	--	--	--
Delta-BHC	mg/kg	0.0048	SL-1	--	--	--	--	--	--	--	--	--
Dieldrin	mg/kg	1.8E-09	SL-6	--	--	--	--	--	--	--	--	--
Endosulfan I	mg/kg	6.1E-05	SL-6	--	--	--	--	--	--	--	--	--
Endosulfan II	mg/kg	6.1E-05	SL-6	--	--	--	--	--	--	--	--	--
Endosulfan Sulfate	mg/kg	0.1	SL-6	--	--	--	--	--	--	--	--	--
Endrin	mg/kg	2.2E-05	SL-6	--	--	--	--	--	--	--	--	--
Endrin Aldehyde	mg/kg	0.00012	SL-6	--	--	--	--	--	--	--	--	--
Endrin ketone	mg/kg			--	--	--	--	--	--	--	--	--
Heptachlor	mg/kg	3.3E-09	SL-6	--	--	--	--	--	--	--	--	--
Heptachlor Epoxide	mg/kg	2.5E-08	SL-6	--	--	--	--	--	--	--	--	--
Lindane	mg/kg	0.00021	SL-6	--	--	--	--	--	--	--	--	--
Methoxychlor	mg/kg	0.0016	SL-6	--	--	--	--	--	--	--	--	--
Mirex	mg/kg	0.00036	SL-6	--	--	--	--	--	--	--	--	--
Oxychlordane	mg/kg			--	--	--	--	--	--	--	--	--
Toxaphene	mg/kg	3.1E-06	SL-6	--	--	--	--	--	--	--	--	--
trans-Chlordane	mg/kg	5.3E-06	SL-7	--	--	--	--	--	--	--	--	--
trans-Nonachlor	mg/kg			--	--	--	--	--	--	--	--	--
Total Petroleum Hydrocarbons (TPH)												
Gasoline Range Organics	mg/kg	30	SL-3	--	< 7 U	< 8.2 U	--	**5440**	**81.6**	--	--	< 8.06 U
Diesel Range Organics	mg/kg	2000	SL-9	< 67.7 U	< 64.7 U	< 69.6 U	--	< 67.8 U	< 62.8 U	--	--	< 62.8 U
Motor Oil Range Organics	mg/kg	2000	SL-9	< 135 U	< 129 U	< 139 U	--	< 136 U	< 126 U	--	--	< 126 U
Diesel and Oil Extended Range Organics	mg/kg	2000	SL-9	< 135 U	< 129 U	< 139 U	--	< 136 U	< 126 U	--	--	< 126 U
Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)												
Benzene	mg/kg	0.00056	SL-6	--	< 0.00128 UJ	**0.00104 J**	--	< 7.93 U	< 0.0014 U	--	--	**0.00048 J**
Toluene	mg/kg	0.044	SL-6	--	< 0.00128 UJ	**0.00038 J**	--	< 7.93 U	< 0.0014 U	--	--	< 0.00122 U
Ethylbenzene	mg/kg	0.01	SL-6	--	< 0.00128 UJ	< 0.00149 U	--	< 7.93 U	< 0.0014 U	--	--	< 0.00122 U
Total Xylenes	mg/kg	0.055	SL-6	--	< 0.00257 UJ	< 0.00299 U	--	< 15.9 U	< 0.0028 U	--	--	< 0.00245 U
Volatile Organic Compounds (VOCs)												
1,1,1,2-Tetrachloroethane	mg/kg	38	SL-1	--	< 0.00128 UJ	< 0.00149 U	--	< 7.93 U	< 0.0014 U	--	--	< 0.00122 U
1,1,1-Trichloroethane	mg/kg	21	SL-6	--	< 0.00128 UJ	< 0.00149 U	--	< 7.93 U	< 0.0014 U	--	--	< 0.00122 U
1,1,2 - Trichlorotrifluoroethane	mg/kg	2400000	SL-1	--	< 0.00257 UJ	< 0.00299 U	--	< 15.9 U	< 0.0028 U	--	--	< 0.00245 U
1,1,2,2-Tetrachloroethane	mg/kg	0.00011	SL-6	--	< 0.00128 UJ	< 0.00149 U	--	< 7.93 U	< 0.0014 U	--	--	< 0.00122 U
1,1,2-Trichloroethane	mg/kg	0.00033	SL-6	--	< 0.00128 UJ	< 0.00149 U	--	< 7.93 U	< 0.0014 U	--	--	< 0.00122 U
1,1-Dichloroethane	mg/kg	180	SL-1	--	< 0.00128 UJ	< 0.00149 U	--	< 7.93 U	< 0.0014 U	--	--	< 0.00122 U
1,1-Dichloroethene	mg/kg	1.4	SL-6	--	< 0.00128 UJ	< 0.00149 U	--	< 7.93 U	**0.00575**	--	--	< 0.00122 U
1,1-Dichloropropene	mg/kg			--	< 0.00128 UJ	< 0.00149 U	--	< 7.93 U	< 0.0014 U	--	--	< 0.00122 U
1,2,3-Trichlorobenzene	mg/kg	64	SL-9	--	< 0.00642 UJ	< 0.00747 U	--	< 39.7 U	< 0.00699 U	--	--	< 0.00612 U
1,2,3-Trichloropropane	mg/kg	0.0063	SL-1	--	< 0.00257 UJ	< 0.00299 U	--	< 15.9 U	< 0.0028 U	--	--	< 0.00245 U
1,2,4-Trichlorobenzene	mg/kg	7.2E-05	SL-6	--	< 0.00642 UJ	< 0.00747 U	--	< 39.7 U	< 0.00699 U	--	--	< 0.00612 U
1,2,4-Trimethylbenzene	mg/kg	800	SL-1	--	< 0.00128 UJ	< 0.00149 U	--	**84.2**	< 0.0014 U	--	--	< 0.00122 U
1,2-Dibromo-3-chloropropane	mg/kg	0.23	SL-1	--	< 0.00642 UJ	< 0.00747 U	--	< 39.7 U	< 0.00699 U	--	--	< 0.00612 U
1,2-Dibromoethane (EDB)	mg/kg	0.5	SL-1	--	< 0.00128 UJ	< 0.00149 U	--	< 7.93 U	< 0.0014 U	--	--	< 0.00122 U
1,2-Dichlorobenzene	mg/kg	0.003	SL-7	--	< 0.00128 UJ	< 0.00149 U	--	< 7.93 U	< 0.0014 U	--	--	< 0.00122 U
1,2-Dichloroethane (EDC)	mg/kg	0.024	SL-6	--	< 0.00128 UJ	< 0.00149 U	--	< 7.93 U	< 0.0014 U	--	--	< 0.00122 U
1,2-Dichloropropane	mg/kg	0.001	SL-6	--	< 0.00128 UJ	< 0.00149 U	--	< 7.93 U	< 0.0014 U	--	--	< 0.00122 U
1,3,5-Trimethylbenzene	mg/kg	800	SL-1	--	< 0.00128 UJ	< 0.00149 U	--	**125**	**0.00047 J**	--	--	< 0.00122 U
1,3-Dichlorobenzene	mg/kg	0.0013	SL-6	--	< 0.00128 UJ	< 0.00149 U	--	< 7.93 U	< 0.0014 U	--	--	< 0.00122 U
1,3-Dichloropropane	mg/kg	0.00043	SL-6	--	< 0.00128 UJ	< 0.00149 U	--	< 7.93 U	< 0.0014 U	--	--	< 0.00122 U
1,4-Dichloro-2-Butene	mg/kg			--	< 0.00642 UJ	< 0.00747 U	--	< 39.7 U	< 0.00699 U	--	--	< 0.00612 U
1,4-Dichlorobenzene	mg/kg	0.0081	SL-7	--	< 0.00128 UJ	< 0.00149 U	--	< 7.93 U	< 0.0014 U	--	--	< 0.00122 U
2,2-Dichloropropane	mg/kg			--	< 0.00128 UJ	< 0.00149 U	--	< 7.93 U	< 0.0014 U	--	--	< 0.00122 U
2-Butanone	mg/kg	350	SL-9	--	< 0.00642 UJ	< 0.00747 U	--	< 39.7 U	< 0.00699 U	--	--	< 0.00612 U
2-Chloroethyl Vinyl Ether	mg/kg			--	< 0.00642 UJ	< 0.00747 UJ	--	< 39.7 UJ	< 0.00699 UJ	--	--	< 0.00612 UJ
2-Chlorotoluene	mg/kg	1600	SL-1	--	< 0.00128 UJ	< 0.00149 U	--	< 7.93 U	< 0.0014 U	--	--	< 0.00122 U
2-Hexanone	mg/kg	400	SL-1	--	< 0.00642 UJ	< 0.00747 U	--	< 39.7 U	< 0.00699 U	--	--	< 0.00612 U
2-Pentanone	mg/kg			--	< 0.00642 UJ	< 0.00747 UJ	--	< 39.7 UJ	< 0.00699 UJ	--	--	< 0.00612 UJ
4-Chlorotoluene	mg/kg	1600	SL-1	--	< 0.00128 UJ	< 0.00149 U	--	< 7.93 U	< 0.0014 U	--	--	< 0.00122 U
4-Methyl-2-pentanone	mg/kg	6400	SL-1	--	< 0.00642 UJ	< 0.00747 U	--	< 39.7 U	< 0.00699 U	--	--	< 0.00612 U
Acetone	mg/kg	1.2	SL-9	--	**0.027 J**	**0.0819 J**	--	< 39.7 U	**0.0769 J**	--	--	**0.0589**
Acrolein	mg/kg	0.00032	SL-6	--	< 0.00642 UJ	< 0.00747 U	--	< 39.7 U	< 0.00699 U	--	--	< 0.00612 U
Acrylonitrile	mg/kg	8.3E-06	SL-6	--	< 0.00642 UJ	< 0.00747 U	--	< 39.7 U	< 0.00699 U	--	--	< 0.00612 U
Bromobenzene	mg/kg	640	SL-1	--	< 0.00128 UJ	< 0.00149 U	--	< 7.93 U	< 0.0014 U	--	--	< 0.00122 U
Bromochloromethane	mg/kg			--	< 0.00128 UJ	< 0.00149 U	--	< 7.93 U	< 0.0014 U	--	--	< 0.00122 U
Bromodichloromethane	mg/kg	0.00089	SL-6	--	< 0.00128 UJ	< 0.00149 U	--	< 7.93 U	< 0.0014 U	--	--	< 0.00122 U
Bromoform	mg/kg	0.005	SL-6	--	< 0.00128 UJ	< 0.00149 U	--	< 7.93 U	< 0.0014 U	--	--	< 0.00122 U
Bromomethane	mg/kg	0.079	SL-6	--	< 0.00128 UJ	< 0.00149 U	--	< 7.93 U	< 0.0014 U	--	--	< 0.00122 U
Carbon Disulfide	mg/kg	0.81	SL-9	--	< 0.00128 UJ	**0.00089 J**	--	< 7.93 U	**0.00915**	--	--	< 0.00122 U
Carbon Tetrachloride	mg/kg	0.00015	SL-6	--	< 0.00128 UJ	< 0.00149 U	--	< 7.93 U	< 0.0014 U	--	--	< 0.00122 U
Chlorobenzene	mg/kg	0.1	SL-6	--	< 0.00128 UJ	< 0.00149 U	--	< 7.93 U	< 0.0014 U	--	--	< 0.00122 U
Chloroethane	mg/kg			--	< 0.00257 UJ	< 0.00299 U	--	< 7.93 U	< 0.0028 U	--	--	< 0.00245 U
Chloroform	mg/kg	0.052	SL-6	--	< 0.00128 UJ	< 0.00149 U	--	< 7.93 U	< 0.0014 U	--	--	< 0.00122 U
Chloromethane	mg/kg			--	< 0.00128 UJ	< 0.00149 U	--	< 7.93 U	< 0.0014 U	--	--	< 0.00122 U
cis-1,2-Dichloroethene (DCE)	mg/kg	24	SL-9	--	< 0.00128 UJ	**0.00988**	--	< 7.93 U	**0.689**	--	--	< 0.00122 UJ
cis-1,3-Dichloropropene	mg/kg	0.00038	SL-6	--	< 0.00128 UJ	< 0.00149 U	--	< 7.93 U	< 0.0014 U	--	--	< 0.00122 U
Dibromochloromethane	mg/kg	0.00070	SL-6	--	< 0.00128 UJ	< 0.00149 U	--	< 7.93 U	< 0.0014 U	--	--	< 0.00122 U
Dibromomethane	mg/kg	800	SL-1	--	< 0.00128 UJ	< 0.00149 U	--	< 7.93 U	< 0.0014 U	--	--	< 0.00122 U
Dichlorodifluoromethane	mg/kg	16000	SL-1	--	< 0.00128 UJ	< 0.00149 U	--	< 7.93 U	< 0.0014 U	--	--	< 0.00122 U
Isopropylbenzene	mg/kg	8000	SL-1	--	< 0.00128 UJ	< 0.00149 U	--	**0.0025**	< 0.0014 U	--	--	< 0.00122 U
m,p-Xylenes	mg/kg			--	< 0.00257 UJ	< 0.00299 U	--	< 15.9 U	< 0.0028 U	--	--	< 0.00245 U
Methyl tert-butyl ether (MTBE)	mg/kg	560	SL-1	--	< 0.00128 UJ	< 0.00149 U	--	< 7.93 U	< 0.0014 U	--	--	< 0.00122 U
Methylene Chloride	mg/kg	0.030	SL-6	--	**0.00659 J**	< 0.00747 U	--	**10.7 J**	< 0.00699 U	--	--	< 0.00612 U
Methyliodide	mg/kg			--	< 0.00128 UJ	< 0.00149 U	--	< 7.93 U	< 0.0014 U	--	--	< 0.00122 U
n-Butylbenzene	mg/kg	4000	SL-1	--	< 0.00128 UJ	< 0.00149 U	--	**79.6**	< 0.0014 U	--	--	< 0.00122 U
n-Hexane	mg/kg	4800	SL-1	--	--	--	--	--	--	--	--	--
n-Propylbenzene	mg/kg	8000	SL-1	--	< 0.00128 UJ	< 0.00149 U	--	**72.5**	**0.00049 J**	--	--	< 0.00122 U
o-Xylene	mg/kg			--	< 0.00128 UJ	< 0.00149 U	--	< 7.93 U	< 0.0014 U	--	--	< 0.00122 U
p-Isopropyltoluene	mg/kg	320	SL-1	--	< 0.00128 UJ	< 0.00149 U	--	**12.4**	< 0.0014 U	--	--	< 0.00122 U
sec-Butylbenzene	mg/kg	8000	SL-1	--	< 0.00128 UJ	**0.00044 J**	--	**13.6**	< 0.0014 U	--	--	< 0.00122 U
Styrene	mg/kg	4.7	SL-9	--	< 0.00128 UJ	< 0.00149 U	--	< 7.93 U	< 0.0014 U	--	--	< 0.00122 U
tert-Butylbenzene	mg/kg	8000	SL-1	--	< 0.00128 UJ	**0.00121 J**	--	< 7.93 U	< 0.0014 U	--	--	< 0.00122 U
Tetrachloroethene (PCE)	mg/kg	0.0016	SL-6	--	**0.729 J**	**0.0163**	--	**18.7**	**7.07**	--	--	**0.0006 J**
trans-1,2-Dichloroethene	mg/kg	0.32	SL-6	--	< 0.00128 UJ	< 0.00149 U	--	< 7.93 U	**0.00234**	--	--	< 0.00122 U
trans-1,3-Dichloropropene	mg/kg	0.00038	SL-6	--	< 0.00128 UJ	< 0.00149 U	--	< 7.93 U	< 0.0014 U	--	--	< 0.00122 U
Trichloroethene (TCE)	mg/kg	0.00027	SL-6	--	**0.00347 J**	**0.0362**	--	< 7.93 U	**0.672**	--	--	< 0.00122 U
Trichlorofluoromethane	mg/kg	24000	SL-1	--	< 0.00257 UJ	< 0.00299 U	--	< 7.93 U	< 0.0028 U	--	--	< 0.00245 U
Vinyl Acetate	mg/kg	80000	SL-1	--	< 0.00642 UJ	< 0.00747 U	--	< 39.7 U	< 0.00699 U	--	--	< 0.00612 U
Vinyl Chloride	mg/kg	5.6E-05	SL-6	--	< 0.00128 UJ	**0.0012 J**	--	< 7.93 U	< 0.0014 U	--	--	< 0.00122 U
Conventionals												
Total Organic Carbon	%			--	**0.13**	**0.12**	--	**0.48**	< 0.06 U	--	--	< 0.03 U
Total Solids	%			--	**73.1**	**72.6**	--	**72.2**	**78.0**	--	--	**78.4**

Table I.3.C. Saturated Soil Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL

				Location	SB-35			SB-36			SB-37		
				Date	09/12/22	09/12/22	09/12/2022	09/12/22	09/12/22	09/12/22	09/13/22	09/13/22	09/13/22
				Sample	SB-35-11-12	SB-35-13-13.75	SB-35-18-18.75	SB-36-10.5-11.5	SB-36-13-14	SB-36-19-20	SB-37-10-11	SB-37-13-13.75	SB-37-19-19.5
				Depth	11 - 12 ft	13 - 13.75 ft	18 - 18.75 ft	10.5 - 11.5 ft	13 - 14 ft	19 - 20 ft	10 - 11 ft	13 - 13.75 ft	19 - 19.5 ft
				Geologic Unit	Fill	Tidal Flat	Alluvial	Fill	Tidal Flat	Alluvial	Fill	Tidal Flat	Alluvial
Analyte	Unit	Preliminary RI SL	Basis of SL										
Metals, Total													
Arsenic	mg/kg	7.3	SL-10	**1.22**	--	--	**2.31**	--	--	**3.42**	--	--
Barium	mg/kg	250	SL-10	--	--	--	--	--	--	--	--	--
Cadmium	mg/kg	0.77	SL-10	< 0.2 U	--	--	< 0.2 U	--	--	< 0.2 U	--	--
Chromium	mg/kg	67	SL-9	**6.94**	--	--	**8.6**	--	--	**9.46**	--	--
Copper	mg/kg	36	SL-10	**9.36**	--	--	**9.89**	--	--	**12.7**	--	--
Lead	mg/kg	81	SL-6	**1.2**	--	--	**2.5**	--	--	**3.44**	--	--
Mercury	mg/kg	0.07	SL-10	**0.049**	**0.063**	--	**0.076**	**0.053**	**0.059**	**0.046**	--	--
Nickel	mg/kg	48	SL-10	**5.81**	--	--	**6.92**	--	--	**13.4**	--	--
Selenium	mg/kg	0.78	SL-10	--	--	--	--	--	--	--	--	--
Silver	mg/kg	0.61	SL-10	--	--	--	--	--	--	--	--	--
Zinc	mg/kg	85	SL-10	**15.9**	--	--	**19.9**	--	--	**21.9**	--	--
Butyl Tins													
Dibutyltin Ion	mg/kg			< 0.00559 U	--	--	< 0.00543 U	--	--	< 0.0057 U	--	--
Monobutyltin	mg/kg			< 0.00395 U	--	--	< 0.00384 U	--	--	< 0.00402 U	--	--
Tetrabutyltin	mg/kg			< 0.00484 U	--	--	< 0.0047 U	--	--	< 0.00493 U	--	--
Tributyltin Ion	mg/kg	0.00011	SL-7	< 0.00374 U	--	--	< 0.00363 U	--	--	< 0.00381 U	--	--
Polychlorinated Biphenyl (PCB) Aroclors													
Total PCB Aroclors (ND = 0)	mg/kg	5.5E-07	SL-6	**0.036**	< 0.008 U	< 0.004 U	**0.043**	< 0.004 U	< 0.004 U	**0.021**	< 0.004 U	< 0.004 U
Polychlorinated Biphenyl (PCB) Congeners													
Total PCB Congeners (ND = 0)	mg/kg	5.5E-07	SL-6	--	--	--	--	--	--	--	--	--
Total PCB TEQ (ND = 0)	mg/kg	3.5E-10	SL-6	--	--	--	--	--	--	--	--	--
Dioxins/Furans													
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	5.2E-06	SL-10	--	--	--	--	--	--	--	--	--
2,3,7,8-TCDD	mg/kg	5.2E-06	SL-10	--	--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)													
1-Methylnaphthalene	mg/kg	20	SL-1	**0.00062**	< 0.02 U	< 0.0005 U	**0.0012**	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.001 U	< 0.0005 U
2-Methylnaphthalene	mg/kg	0.039	SL-7	**0.00059**	< 0.02 U	< 0.0005 U	**0.002**	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.001 U	< 0.0005 U
Acenaphthene	mg/kg	0.028	SL-7	< 0.0005 U	< 0.02 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.001 U	< 0.0005 U
Acenaphthylene	mg/kg	1.3	SL-8	< 0.0005 U	< 0.02 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.001 U	< 0.0005 U
Anthracene	mg/kg	0.051	SL-7	< 0.0005 U	< 0.02 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.001 U	< 0.0005 U
Benzo(g,h,i)perylene	mg/kg	0.67	SL-8	< 0.0005 U	**0.03**	< 0.0005 U	**0.00067**	< 0.0005 U	< 0.0005 U	**0.00052**	< 0.001 U	< 0.0005 U
Fluoranthene	mg/kg	0.09	SL-7	**0.00057**	**0.095**	< 0.0005 U	**0.0016**	< 0.0005 U	< 0.0005 U	**0.0015**	< 0.001 U	< 0.0005 U
Fluorene	mg/kg	0.029	SL-7	< 0.0005 U	< 0.02 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.001 U	< 0.0005 U
Naphthalene	mg/kg	0.0021	SL-6	< 0.005 U	< 0.01 U	< 0.005 U	**0.00092**	< 0.005 U	< 0.0005 U	< 0.005 U	< 0.005 U	< 0.005 U
Phenanthrene	mg/kg	1.5	SL-8	**0.0011**	**0.06**	< 0.0005 U	**0.0026**	< 0.0005 U	< 0.0005 U	**0.0015**	< 0.001 U	**0.00084**
Pyrene	mg/kg	0.14	SL-7	**0.00093**	**0.12**	< 0.0005 U	**0.0031**	< 0.0005 U	< 0.0005 U	**0.0022**	< 0.001 U	< 0.0005 U
Benz(a)anthracene	mg/kg	0.73	SL-9	< 0.0005 U	**0.05**	< 0.0005 U	**0.00064**	< 0.0005 U	< 0.0005 U	**0.00073**	< 0.001 U	< 0.0005 U
Benzo(a)pyrene	mg/kg	1.6E-05	SL-6	< 0.0005 U	**0.071**	< 0.0005 U	**0.00092**	< 0.0005 U	< 0.0005 U	**0.00082**	< 0.001 U	< 0.0005 U
Benzo(b)fluoranthene	mg/kg	44	SL-9	< 0.0005 U	**0.081**	< 0.0005 U	**0.0014**	< 0.0005 U	< 0.0005 U	**0.001**	< 0.001 U	< 0.0005 U
Benzo(j)fluoranthene	mg/kg			--	--	--	--	--	--	--	--	--
Benzo(j,k)fluoranthene	mg/kg			--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	mg/kg	71	SL-9	< 0.0005 U	**0.026**	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.001 U	< 0.0005 U
Chrysene	mg/kg	1.4	SL-8	**0.00053**	**0.063**	< 0.0005 U	**0.0019**	< 0.0005 U	< 0.0005 U	**0.00089**	< 0.001 U	< 0.0005 U
Dibenzo(a,h)anthracene	mg/kg	0.23	SL-8	< 0.0005 U	< 0.02 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.001 U	< 0.0005 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.6	SL-8	< 0.0005 U	**0.035**	< 0.0005 U	**0.00064**	< 0.0005 U	< 0.0005 U	**0.00053**	< 0.001 U	< 0.0005 U
Total Benzofluoranthenes	mg/kg	1.1	SL-9	< 0.0005 U	**0.107**	< 0.0005 U	**0.00165**	< 0.0005 U	< 0.0005 U	**0.00125**	< 0.001 U	< 0.0005 U
Total HPAHs (ND = 1/2 RDL)	mg/kg	1.1	SL-9	**0.00378**	**0.581**	< 0.0005 U	**0.0114**	< 0.0005 U	< 0.0005 U	**0.00869**	< 0.001 U	< 0.0005 U
Total LPAHs (ND = 1/2 RDL)	mg/kg	5.2	SL-8	**0.0046**	**0.105**	< 0.005 U	**0.00452**	< 0.005 U	< 0.0005 U	**0.005**	< 0.005 U	**0.00434**
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	1.6E-05	SL-6	**0.00038**	**0.0918**	< 0.000378 U	**0.00126**	< 0.000378 U	< 0.000378 U	**0.0011**	< 0.000755 U	< 0.000378 U
Semi-Volatile Organic Compounds (SVOCs)													
1,2-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	mg/kg	3.6E-05	SL-6	< 0.0025 U	--	--	< 0.0025 U	--	--	< 0.0025 U	--	--
1,3-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--
1,4-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	mg/kg	2400	SL-1	--	--	--	--	--	--	--	--	--
2,3,5,6-Tetrachlorophenol	mg/kg			--	--	--	--	--	--	--	--	--
2,3-Dichloroaniline	mg/kg			--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	mg/kg	1.1	SL-6	< 0.025 U	--	--	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	--	--
2,4,6-Trichlorophenol	mg/kg	0.00019	SL-6	< 0.025 U	--	--	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	--	--
2,4-Dichlorophenol	mg/kg	0.0043	SL-6	< 0.025 U	--	--	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	--	--
2,4-Dimethylphenol	mg/kg	0.0023	SL-7	< 0.025 U	--	--	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	--	--
2,4-Dinitrophenol	mg/kg	0.029	SL-6	< 0.075 U	--	--	< 0.075 U	< 0.075 U	< 0.075 U	< 0.075 U	--	--
2,4-Dinitrotoluene	mg/kg	0.00016	SL-6	< 0.012 U	--	--	< 0.012 U	< 0.012 U	< 0.012 U	< 0.012 U	--	--
2,6-Dinitrotoluene	mg/kg	0.67	SL-1	< 0.012 U	--	--	< 0.012 U	< 0.012 U	< 0.012 U	< 0.012 U	--	--
2-Chloronaphthalene	mg/kg	0.28	SL-6	< 0.0025 U	--	--	< 0.0025 U	< 0.0025 U	< 0.0025 U	< 0.0025 U	--	--
2-Chlorophenol	mg/kg	0.011	SL-6	< 0.025 U	--	--	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	--	--
2-Methylphenol	mg/kg	0.0058	SL-7	< 0.025 U	--	--	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	--	--
2-Nitroaniline	mg/kg	800	SL-1	< 0.012 U	--	--	< 0.012 U	< 0.012 U	< 0.012 U	< 0.012 U	--	--
2-Nitrophenol	mg/kg			< 0.025 U	--	--	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	--	--
3 & 4 Methylphenol	mg/kg			< 0.05 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	--	--
3,3'-Dichlorobenzidine	mg/kg	1.1E-05	SL-6	< 0.025 U	--	--	< 0.025 U	--	--	< 0.025 U	--	--
3-Nitroaniline	mg/kg			< 0.25 U	--	--	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	--	--
4,6-Dinitro-2-methylphenol	mg/kg	0.0073	SL-6	< 0.075 U	--	--	< 0.075 U	< 0.075 U	< 0.075 U	< 0.075 U	--	--
4-Bromophenyl phenyl ether	mg/kg			< 0.0025 U	--	--	< 0.0025 U	< 0.0025 U	< 0.0025 U	< 0.0025 U	--	--
4-Chloro-3-methylphenol	mg/kg	0.028	SL-6	< 0.025 U	--	--	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	--	--
4-Chloroaniline	mg/kg	5	SL-1	< 0.25 U	--	--	< 0.25 U	< 0.25 UJ	< 0.25 UJ	< 0.25 U	--	--
4-Chlorophenyl phenyl ether	mg/kg			< 0.0025 U	--	--	< 0.0025 U	< 0.0025 U	< 0.0025 U	< 0.0025 U	--	--
4-Methylphenol	mg/kg	0.062	SL-7	< 0.05 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	--	--
4-Nitroaniline	mg/kg	22	SL-9	< 0.25 U	--	--	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	--	--
4-Nitrophenol	mg/kg			< 0.075 U	--	--	< 0.075 U	< 0.075 U	< 0.075 U	< 0.075 U	--	--
Aniline	mg/kg	180	SL-1	--	--	--	--	--	--	--	--	--
Benzidine	mg/kg	3.4E-08	SL-6	--	--	--	--	--	--	--	--	--
Benzoic acid	mg/kg	0.17	SL-7	< 0.12 U	--	--	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	--	--
Benzyl alcohol	mg/kg	0.017	SL-7	< 0.025 U	--	--	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	--	--
Benzyl butyl phthalate	mg/kg	0.00018	SL-6	< 0.025 U	--	--	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	--	--
Bis(2-chloro-1-methylethyl) ether	mg/kg	0.038	SL-6	< 0.0025 U	--	--	< 0.0025 U	< 0.0025 U	< 0.0025 U	< 0.0025 U	--	--
Bis(2-chloroethoxy)methane	mg/kg	240	SL-1	< 0.0025 U	--	--	< 0.0025 U	< 0.0025 U	< 0.0025 U	< 0.0025 U	--	--
Bis(2-chloroethyl) ether	mg/kg	2.2E-05	SL-6	< 0.0025 U	--	--	< 0.0025 U	< 0.0025 U	< 0.0025 U	< 0.0025 U	--	--
bis(2-Chloroisopropyl)ether	mg/kg			--	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) adipate	mg/kg	830	SL-1	--	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate	mg/kg	0.0051	SL-6	< 0.04 U	--	--	< 0.04 U	< 0.04 U	< 0.04 U	< 0.04 U	--	--
Carbazole	mg/kg	79	SL-9	< 0.0025 U	--	--	< 0.0025 U	< 0.0025 U	< 0.0025 U	< 0.0025 U	--	--
Dibenzofuran	mg/kg	0.029	SL-7	< 0.0025 U	--	--	< 0.0025 U	< 0.0025 U	< 0.0025 U	< 0.0025 U	--	--
Diethyl phthalate	mg/kg	0.034	SL-7	< 0.025 U	--	--	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	--	--
Dimethyl phthalate	mg/kg	0.019	SL-7	< 0.025 U	--	--	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	--	--
Di-n-butyl phthalate	mg/kg	0.011	SL-9	< 0.025 U	--	--	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	--	--
Di-n-octyl phthalate	mg/kg	0.33	SL-7	< 0.025 U	--	--	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	--	--
Hexachlorobenzene	mg/kg	4E-07	SL-6	< 0.0025 U	--	--	< 0.0025 U	< 0.0025 U	< 0.0025 U	< 0.0025 U	--	--
Hexachlorobutadiene	mg/kg	1.1E-05	SL-6	< 0.01 U	< 0.01 U	< 0.01 U	< 0.0025 U	< 0.01 U	< 0.0025 U	< 0.01 U	< 0.01 U	< 0.01 U
Hexachlorocyclopentadiene	mg/kg	0.0017	SL-6	< 0.0075 U	--	--	< 0.0075 U	< 0.0075 U	< 0.0075 U	< 0.0075 U	--	--
Hexachloroethane	mg/kg	9.7E-06	SL-6	< 0.0025 U	--	--	< 0.0025 U	< 0.0025 U	< 0.0025 U	< 0.0025 U	--	--
Isophorone	mg/kg	0.039	SL-6	< 0.0025 U	--	--	< 0.0025 U	< 0.0025 U	< 0.0025 U	< 0.0025 U	--	--
Nitrobenzene	mg/kg	0.041	SL-6	< 0.0025 U	--	--	< 0.0025 U	< 0.0025 U	< 0.0025 U	< 0.0025 U	--	--
N-Nitrosodimethylamine	mg/kg	0.00011	SL-6	< 0.0025 U	--	--	< 0.0025 U	--	--	< 0.0025 U	--	--
N-Nitroso-di-n-propylamine	mg/kg	3.3E-05	SL-6	< 0.0025 U	--	--	< 0.0025 U	< 0.0025 U	< 0.0025 U	< 0.0025 U	--	--
N-Nitrosodiphenylamine	mg/kg	0.0016	SL-7	< 0.0025 U	--	--	< 0.0025 U	< 0.0025 U	< 0.0025 U	< 0.0025 U	--	--
Pentachlorophenol	mg/kg	1.8E-06	SL-6	< 0.012 U	--	--	**0.014**	< 0.012 U	< 0.012 U	< 0.012 U	--	--
Phenol	mg/kg	0.048	SL-7	< 0.025 U	--	--	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	--	--
Pyridine	mg/kg	80	SL-1	--	--	--	--	--	--	--	--	--

Table I.3.C. Saturated Soil Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL

				Location	SB-35			SB-36			SB-37		
				Date	09/12/22	09/12/22	09/12/2022	09/12/22	09/12/22	09/12/22	09/13/22	09/13/22	09/13/22
				Sample	SB-35-11-12	SB-35-13-13.75	SB-35-18-18.75	SB-36-10.5-11.5	SB-36-13-14	SB-36-19-20	SB-37-10-11	SB-37-13-13.75	SB-37-19-19.5
				Depth	11 - 12 ft	13 - 13.75 ft	18 - 18.75 ft	10.5 - 11.5 ft	13 - 14 ft	19 - 20 ft	10 - 11 ft	13 - 13.75 ft	19 - 19.5 ft
				Geologic Unit	Fill	Tidal Flat	Alluvial	Fill	Tidal Flat	Alluvial	Fill	Tidal Flat	Alluvial
Analyte	Unit	Preliminary RI SL	Basis of SL										
Pesticides													
2,4'-DDD	mg/kg			--	--	--	--	--	--	--	--	--	--
2,4'-DDE	mg/kg			--	--	--	--	--	--	--	--	--	--
2,4'-DDT	mg/kg			--	--	--	--	--	--	--	--	--	--
4,4'-DDD	mg/kg	3.6E-07	SL-6	**0.0028 J**	--	--	**0.0065 J**	< 0.001 U	--	--	--	--	--
4,4'-DDE	mg/kg	7.6E-08	SL-6	**0.0027 J**	--	--	**0.0047 J**	< 0.001 U	--	--	--	--	--
4,4'-DDT	mg/kg	8.1E-07	SL-6	< 0.001 U	--	--	< 0.001 U	< 0.001 U	--	--	--	--	--
Aldrin	mg/kg	2E-09	SL-6	< 0.0017 U	--	--	< 0.0017 U	< 0.0017 U	--	--	--	--	--
Alpha-BHC	mg/kg	9.8E-08	SL-6	< 0.0005 U	--	--	< 0.0005 U	< 0.0005 U	--	--	--	--	--
Beta-BHC	mg/kg	3.4E-06	SL-6	< 0.0005 U	--	--	< 0.0005 U	< 0.0005 U	--	--	--	--	--
Chlordane	mg/kg	1.1E-06	SL-6	--	--	--	--	--	--	--	--	--	--
cis-Chlordane	mg/kg	5.3E-06	SL-7	< 0.0005 U	--	--	< 0.0005 U	< 0.0005 U	--	--	--	--	--
cis-Nonachlor	mg/kg			--	--	--	--	--	--	--	--	--	--
Delta-BHC	mg/kg	0.0048	SL-1	< 0.0005 U	--	--	< 0.0005 U	< 0.0005 U	--	--	--	--	--
Dieldrin	mg/kg	1.8E-09	SL-6	< 0.001 U	--	--	< 0.001 U	< 0.001 U	--	--	--	--	--
Endosulfan I	mg/kg	6.1E-05	SL-6	< 0.0005 U	--	--	< 0.0005 U	< 0.0005 U	--	--	--	--	--
Endosulfan II	mg/kg	6.1E-05	SL-6	< 0.001 U	--	--	< 0.001 U	< 0.001 U	--	--	--	--	--
Endosulfan Sulfate	mg/kg	0.1	SL-6	< 0.001 U	--	--	< 0.001 U	< 0.001 U	--	--	--	--	--
Endrin	mg/kg	2.2E-05	SL-6	< 0.001 U	--	--	< 0.001 U	< 0.001 U	--	--	--	--	--
Endrin Aldehyde	mg/kg	0.00012	SL-6	< 0.001 U	--	--	< 0.001 U	< 0.001 U	--	--	--	--	--
Endrin ketone	mg/kg			< 0.001 U	--	--	< 0.001 U	< 0.001 U	--	--	--	--	--
Heptachlor	mg/kg	3.3E-09	SL-6	< 0.0005 U	--	--	< 0.0005 U	< 0.0005 U	--	--	--	--	--
Heptachlor Epoxide	mg/kg	2.5E-08	SL-6	< 0.0005 U	--	--	< 0.0005 U	< 0.0005 U	--	--	--	--	--
Lindane	mg/kg	0.00021	SL-6	< 0.0005 U	--	--	< 0.0005 U	< 0.0005 U	--	--	--	--	--
Methoxychlor	mg/kg	0.0016	SL-6	< 0.005 U	--	--	< 0.005 U	< 0.005 U	--	--	--	--	--
Mirex	mg/kg	0.00036	SL-6	--	--	--	--	--	--	--	--	--	--
Oxychlordane	mg/kg			--	--	--	--	--	--	--	--	--	--
Toxaphene	mg/kg	3.1E-06	SL-6	< 0.025 U	--	--	< 0.025 U	< 0.025 U	--	--	--	--	--
trans-Chlordane	mg/kg	5.3E-06	SL-7	< 0.0017 U	--	--	< 0.0017 U	< 0.0017 U	--	--	--	--	--
trans-Nonachlor	mg/kg			--	--	--	--	--	--	--	--	--	--
Total Petroleum Hydrocarbons (TPH)													
Gasoline Range Organics	mg/kg	30	SL-3	< 5 U	--	--	< 5 U	--	--	**2.2 J**	--	--	
Diesel Range Organics	mg/kg	2000	SL-9	< 10 U	--	--	**12**	--	--	< 10 U	--	--	
Motor Oil Range Organics	mg/kg	2000	SL-9	< 50 U	--	--	**52**	--	--	< 50 U	--	--	
Diesel and Oil Extended Range Organics	mg/kg	2000	SL-9	< 50 U	--	--	**64**	--	--	< 50 U	--	--	
Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)													
Benzene	mg/kg	0.00056	SL-6	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	
Toluene	mg/kg	0.044	SL-6	< 0.002 U	< 0.001 U	< 0.001 U	< 0.002 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	**0.0013**	
Ethylbenzene	mg/kg	0.01	SL-6	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	
Total Xylenes	mg/kg	0.055	SL-6	< 0.002 U	**0.0038**	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	**0.0025**	
Volatile Organic Compounds (VOCs)													
1,1,1,2-Tetrachloroethane	mg/kg	38	SL-1	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	
1,1,1-Trichloroethane	mg/kg	21	SL-6	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	
1,1,2 - Trichlorotrifluoroethane	mg/kg	2400000	SL-1	--	--	--	--	--	--	--	--	--	
1,1,2,2-Tetrachloroethane	mg/kg	0.00011	SL-6	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	
1,1,2-Trichloroethane	mg/kg	0.00033	SL-6	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	
1,1-Dichloroethane	mg/kg	180	SL-1	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	
1,1-Dichloroethene	mg/kg	1.4	SL-6	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	
1,1-Dichloropropene	mg/kg			< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	
1,2,3-Trichlorobenzene	mg/kg	64	SL-9	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	
1,2,3-Trichloropropane	mg/kg	0.0063	SL-1	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	
1,2,4-Trichlorobenzene	mg/kg	7.2E-05	SL-6	< 0.0025 U	< 0.01 U	< 0.01 U	< 0.0025 U	< 0.01 U	< 0.0025 U	< 0.0025 U	< 0.01 U	< 0.01 U	
1,2,4-Trimethylbenzene	mg/kg	800	SL-1	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	
1,2-Dibromo-3-chloropropane	mg/kg	0.23	SL-1	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	
1,2-Dibromoethane (EDB)	mg/kg	0.5	SL-1	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	
1,2-Dichlorobenzene	mg/kg	0.003	SL-7	< 0.05 U	< 0.05 U	< 0.05 U	< 0.0025 U	< 0.05 U	< 0.0025 U	< 0.05 U	< 0.05 U	< 0.05 U	
1,2-Dichloroethane (EDC)	mg/kg	0.024	SL-6	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	
1,2-Dichloropropane	mg/kg	0.001	SL-6	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	
1,3,5-Trimethylbenzene	mg/kg	800	SL-1	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	
1,3-Dichlorobenzene	mg/kg	0.0013	SL-6	< 0.0025 U	< 0.05 U	< 0.05 U	< 0.0025 U	< 0.05 U	< 0.0025 U	< 0.05 U	< 0.05 U	< 0.05 U	
1,3-Dichloropropane	mg/kg	0.00043	SL-6	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	
1,4-Dichloro-2-Butene	mg/kg			--	--	--	--	--	--	--	--	--	
1,4-Dichlorobenzene	mg/kg	0.0081	SL-7	< 0.0025 U	< 0.05 U	< 0.05 U	< 0.0025 U	< 0.05 U	< 0.0025 U	< 0.0025 U	< 0.05 U	< 0.05 U	
2,2-Dichloropropane	mg/kg			< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	
2-Butanone	mg/kg	350	SL-9	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
2-Chloroethyl Vinyl Ether	mg/kg			--	--	--	--	--	--	--	--	--	
2-Chlorotoluene	mg/kg	1600	SL-1	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	
2-Hexanone	mg/kg	400	SL-1	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	
2-Pentanone	mg/kg			--	--	--	--	--	--	--	--	--	
4-Chlorotoluene	mg/kg	1600	SL-1	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	
4-Methyl-2-pentanone	mg/kg	6400	SL-1	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	
Acetone	mg/kg	1.2	SL-9	< 5 U	--	< 5 UJ	< 5 U	< 5 UJ	< 5 UJ	< 5 U	< 5 U	< 5 U	
Acrolein	mg/kg	0.00032	SL-6	--	--	--	--	--	--	--	--	--	
Acrylonitrile	mg/kg	8.3E-06	SL-6	--	--	--	--	--	--	--	--	--	
Bromobenzene	mg/kg	640	SL-1	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	
Bromochloromethane	mg/kg			--	--	--	--	--	--	--	--	--	
Bromodichloromethane	mg/kg	0.00089	SL-6	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	
Bromoform	mg/kg	0.005	SL-6	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	
Bromomethane	mg/kg	0.079	SL-6	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	
Carbon Disulfide	mg/kg	0.81	SL-9	--	--	--	--	--	--	--	--	--	
Carbon Tetrachloride	mg/kg	0.00015	SL-6	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	
Chlorobenzene	mg/kg	0.1	SL-6	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	
Chloroethane	mg/kg			< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	
Chloroform	mg/kg	0.052	SL-6	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	
Chloromethane	mg/kg			< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	
cis-1,2-Dichloroethene (DCE)	mg/kg	24	SL-9	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	
cis-1,3-Dichloropropene	mg/kg	0.00038	SL-6	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	
Dibromochloromethane	mg/kg	0.00070	SL-6	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	
Dibromomethane	mg/kg	800	SL-1	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	
Dichlorodifluoromethane	mg/kg	16000	SL-1	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	
Isopropylbenzene	mg/kg	8000	SL-1	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	
m,p-Xylenes	mg/kg			< 0.002 U	**0.0026 J**	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	**0.0025**	
Methyl tert-butyl ether (MTBE)	mg/kg	560	SL-1	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	
Methylene Chloride	mg/kg	0.030	SL-6	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	**0.32**	R	R
Methyliodide	mg/kg			--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	4000	SL-1	--	--	--	--	--	--	--	--	--	--
n-Hexane	mg/kg	4800	SL-1	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	
n-Propylbenzene	mg/kg	8000	SL-1	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	
o-Xylene	mg/kg			< 0.001 U	**0.0012**	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	
p-Isopropyltoluene	mg/kg	320	SL-1	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	
sec-Butylbenzene	mg/kg	8000	SL-1	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	
Styrene	mg/kg	4.7	SL-9	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	
tert-Butylbenzene	mg/kg	8000	SL-1	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	
Tetrachloroethene (PCE)	mg/kg	0.0016	SL-6	**0.011**	< 0.001 U	< 0.001 U	**0.0097**	< 0.001 U	< 0.001 U	**0.0024**	< 0.001 U	< 0.001 U	
trans-1,2-Dichloroethene	mg/kg	0.32	SL-6	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	
trans-1,3-Dichloropropene	mg/kg	0.00038	SL-6	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	
Trichloroethene (TCE)	mg/kg	0.00027	SL-6	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	
Trichlorofluoromethane	mg/kg	24000	SL-1	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	
Vinyl Acetate	mg/kg	80000	SL-1	--	--	--	--	--	--	--	--	--	
Vinyl Chloride	mg/kg	5.6E-05	SL-6	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	
Conventionals													
Total Organic Carbon	%			--	--	--	--	--	--	--	--	--	
Total Solids	%			--	--	--	--	--	--	--	--	--	

Table I.3.C. Saturated Soil Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL

				Location	SB-38			SB-39			SB-40	SB-41		SB-42	
				Date	09/12/22	09/12/22	09/12/22	09/13/22	09/13/22	09/13/22	09/26/22	09/13/22	09/13/22	09/22/22	09/22/22
				Sample	SB-38-10.5-11.5	SB-38-15-16	SB-38-18.5-19.25	SB-39-7-8	SB-39-10.5-11.5	SB-39-18.5-19.5	SB-40-12-13	SB-41-7-8	SB-41-10-11	SB-42-6-8-TIG	SB-42-10-11
				Depth	10.5 - 11.5 ft	15 - 16 ft	18.5 - 19.25 ft	7 - 8 ft	10.5 - 11.5 ft	18.5 - 19.5 ft	12 - 13 ft	7 - 8 ft	10 - 11 ft	6 - 8 ft	10 - 11 ft
				Geologic Unit	Tidal Flat	Tidal Flat	Tidal Flat	Fill	Tidal Flat	Alluvial	Tidal Flat	Fill	Alluvial	Fill	Tidal Flat
Analyte	Unit	Preliminary RI SL	Basis of SL												
Metals, Total															
Arsenic	mg/kg	7.3	SL-10	**2.42**	--	--	**1.1**	--	--	**2.16**	**1.14 J**	**0.848**	--	**16.9**
Barium	mg/kg	250	SL-10	--	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/kg	0.77	SL-10	< 0.2 U	--	--	< 0.2 U	--	--	< 0.2 U	< 0.2 U	< 0.2 U	--	**4.6**
Chromium	mg/kg	67	SL-9	**8.51**	--	--	**6.9**	--	--	**5.48 J**	**7.7**	**6.04**	--	**66.4**
Copper	mg/kg	36	SL-10	**14.2**	--	--	**7.8**	--	--	**7.56 J**	**10.6**	**8.05**	--	**209**
Lead	mg/kg	81	SL-6	**2.96**	--	--	**1.97**	--	--	**1.43 J**	**1.27**	**1.32**	--	**310**
Mercury	mg/kg	0.07	SL-10	**0.1**	**0.047**	**0.38**	**0.029**	--	--	< 0.025 U	--	< 0.025 U	--	**3.5**
Nickel	mg/kg	48	SL-10	**6.8**	--	--	**4.48**	--	--	**7.86**	**6.91**	**5.86**	--	**18**
Selenium	mg/kg	0.78	SL-10	--	--	--	--	--	--	--	--	--	--	--
Silver	mg/kg	0.61	SL-10	--	--	--	--	--	--	--	--	--	--	--
Zinc	mg/kg	85	SL-10	**19**	--	--	**14.1**	--	--	**17.7**	**18.9**	**15**	--	**272**
Butyl Tins															
Dibutyltin Ion	mg/kg			< 0.0057 U	< 0.00577 U	< 0.00578 U	< 0.00574 U	< 0.00574 U	--	< 0.00573 U	--	< 0.00565 U	--	**0.222**
Monobutyltin	mg/kg			< 0.00402 U	< 0.00407 U	< 0.00408 U	< 0.00405 U	< 0.00405 U	--	< 0.00404 U	--	< 0.00399 U	--	**0.0561**
Tetrabutyltin	mg/kg			< 0.00493 U	< 0.00499 U	< 0.005 U	< 0.00497 U	< 0.00497 U	--	< 0.00496 U	--	< 0.00488 U	--	< 0.025 U
Tributyltin Ion	mg/kg	0.00011	SL-7	**0.00113 J**	**0.00344**	< 0.00386 U	< 0.00384 U	**0.00262 J**	--	< 0.00383 U	--	< 0.00377 U	--	**0.126**
Polychlorinated Biphenyl (PCB) Aroclors															
Total PCB Aroclors (ND = 0)	mg/kg	5.5E-07	SL-6	< 0.004 U	--	--	**0.02**	**0.023**	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	--	**15.6**
Polychlorinated Biphenyl (PCB) Congeners															
Total PCB Congeners (ND = 0)	mg/kg	5.5E-07	SL-6	--	--	--	--	--	--	--	--	--	**110 J**	**6.84**
Total PCB TEQ (ND = 0)	mg/kg	3.5E-10	SL-6	--	--	--	--	--	--	--	--	--	**2.01E-03**	**1.54E-04**
Dioxins/Furans															
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	5.2E-06	SL-10	--	--	--	--	--	--	--	--	--	**4.01E-03 J**	--
2,3,7,8-TCDD	mg/kg	5.2E-06	SL-10	--	--	--	--	--	--	--	--	--	**1.50E-04**	--
Polycyclic Aromatic Hydrocarbons (PAHs)															
1-Methylnaphthalene	mg/kg	20	SL-1	< 0.0005 U	< 0.005 U	< 0.0005 U	< 0.0005 U	--	--	< 0.0005 U	--	< 0.0005 U	--	**0.85**
2-Methylnaphthalene	mg/kg	0.039	SL-7	< 0.0005 U	< 0.005 U	< 0.0005 U	< 0.0005 U	--	--	< 0.0005 U	--	< 0.0005 U	--	**1.3**
Acenaphthene	mg/kg	0.028	SL-7	< 0.0005 U	< 0.005 U	< 0.0005 U	< 0.0005 U	--	--	< 0.0005 U	--	< 0.0005 U	--	**0.17**
Acenaphthylene	mg/kg	1.3	SL-8	< 0.0005 U	< 0.005 U	< 0.0005 U	< 0.0005 U	--	--	< 0.0005 U	--	< 0.0005 U	--	< 0.02 U
Anthracene	mg/kg	0.051	SL-7	< 0.0005 U	< 0.005 U	< 0.0005 U	< 0.0005 U	--	--	< 0.0005 U	--	< 0.0005 U	--	**0.13**
Benzo(g,h,i)perylene	mg/kg	0.67	SL-8	**0.0015**	< 0.005 U	< 0.0005 U	< 0.0005 U	--	--	< 0.0005 U	--	< 0.0005 U	--	**0.049**
Fluoranthene	mg/kg	0.09	SL-7	**0.0053**	**0.0069**	< 0.0005 U	< 0.0005 U	--	--	< 0.0005 U	--	< 0.0005 U	--	**0.23**
Fluorene	mg/kg	0.029	SL-7	< 0.0005 U	< 0.005 U	< 0.0005 U	< 0.0005 U	--	--	< 0.0005 U	--	< 0.0005 U	--	**0.27**
Naphthalene	mg/kg	0.0021	SL-6	< 0.005 U	< 0.005 U	< 0.0005 U	< 0.0005 U	< 0.005 U	< 0.005 U	< 0.005 U	--	< 0.005 U	--	**0.54**
Phenanthrene	mg/kg	1.5	SL-8	**0.0027**	**0.0054**	< 0.0005 U	**0.00067**	--	--	< 0.0005 U	--	**0.00057**	--	**0.76**
Pyrene	mg/kg	0.14	SL-7	**0.0073**	**0.008**	< 0.0005 U	< 0.0005 U	--	--	< 0.0005 U	--	< 0.0005 U	--	**0.22**
Benz(a)anthracene	mg/kg	0.73	SL-9	**0.003**	< 0.005 U	< 0.0005 U	< 0.0005 U	--	--	< 0.0005 U	--	< 0.0005 U	--	**0.11**
Benzo(a)pyrene	mg/kg	1.6E-05	SL-6	**0.0044**	**0.0055**	< 0.0005 U	< 0.0005 U	--	--	< 0.0005 U	--	< 0.0005 U	--	**0.072**
Benzo(b)fluoranthene	mg/kg	44	SL-9	**0.0045**	**0.0087**	< 0.0005 U	< 0.0005 U	--	--	< 0.0005 U	--	< 0.0005 U	--	**0.095**
Benzo(j)fluoranthene	mg/kg			--	--	--	--	--	--	--	--	--	--	--
Benzo(j,k)fluoranthene	mg/kg			--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	mg/kg	71	SL-9	**0.0015**	< 0.005 U	< 0.0005 U	< 0.0005 U	--	--	< 0.0005 U	--	< 0.0005 U	--	**0.033**
Chrysene	mg/kg	1.4	SL-8	**0.0031**	**0.0055**	< 0.0005 U	< 0.0005 U	--	--	< 0.0005 U	--	< 0.0005 U	--	**0.15**
Dibenzo(a,h)anthracene	mg/kg	0.23	SL-8	< 0.0005 U	< 0.005 U	< 0.0005 U	< 0.0005 U	--	--	< 0.0005 U	--	< 0.0005 U	--	< 0.02 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.6	SL-8	**0.0018**	< 0.005 U	< 0.0005 U	< 0.0005 U	--	--	< 0.0005 U	--	< 0.0005 U	--	**0.065**
Total Benzofluoranthenes	mg/kg	1.1	SL-9	**0.006**	**0.0112**	< 0.0005 U	< 0.0005 U	--	--	< 0.0005 U	--	< 0.0005 U	--	**0.166**
Total HPAHs (ND = 1/2 RDL)	mg/kg	1.1	SL-9	**0.0327**	**0.0471**	< 0.0005 U	< 0.0005 U	--	--	< 0.0005 U	--	< 0.0005 U	--	**1.03**
Total LPAHs (ND = 1/2 RDL)	mg/kg	5.2	SL-8	**0.0062**	**0.0179**	< 0.0005 U	**0.00192**	--	--	< 0.005 U	--	**0.00407**	--	**1.88**
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	1.6E-05	SL-6	**0.00554**	**0.00743**	< 0.000378 U	< 0.000378 U	--	--	< 0.000378 U	--	< 0.000378 U	--	**0.105**
Semi-Volatile Organic Compounds (SVOCs)															
1,2-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	mg/kg	3.6E-05	SL-6	< 0.0025 U	--	--	< 0.0025 U	--	--	< 0.0025 U	--	< 0.0025 U	--	< 0.1 U
1,3-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--	--	--
1,4-Dinitrobenzene	mg/kg	8	SL-1	--	--	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	mg/kg	2400	SL-1	--	--	--	--	--	--	--	--	--	--	--
2,3,5,6-Tetrachlorophenol	mg/kg			--	--	--	--	--	--	--	--	--	--	--
2,3-Dichloroaniline	mg/kg			--	--	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	mg/kg	1.1	SL-6	< 0.025 U	--	--	< 0.025 U	--	--	< 0.025 U	--	< 0.025 U	--	< 1 U
2,4,6-Trichlorophenol	mg/kg	0.00019	SL-6	< 0.025 U	--	--	< 0.025 U	--	--	< 0.025 U	--	< 0.025 U	--	< 1 U
2,4-Dichlorophenol	mg/kg	0.0043	SL-6	< 0.025 U	--	--	< 0.025 U	--	--	< 0.025 U	--	< 0.025 U	--	< 1 U
2,4-Dimethylphenol	mg/kg	0.0023	SL-7	< 0.025 U	--	--	< 0.025 U	--	--	< 0.025 U	--	< 0.025 U	--	< 1 U
2,4-Dinitrophenol	mg/kg	0.029	SL-6	< 0.075 U	--	--	< 0.075 U	--	--	< 0.075 U	--	< 0.075 U	--	< 3 U
2,4-Dinitrotoluene	mg/kg	0.00016	SL-6	< 0.012 U	--	--	< 0.012 U	--	--	< 0.012 U	--	< 0.012 U	--	< 0.5 U
2,6-Dinitrotoluene	mg/kg	0.67	SL-1	< 0.012 U	--	--	< 0.012 U	--	--	< 0.012 U	--	< 0.012 U	--	< 0.5 U
2-Chloronaphthalene	mg/kg	0.28	SL-6	< 0.0025 U	--	--	< 0.0025 U	--	--	< 0.0025 U	--	< 0.0025 U	--	< 0.1 U
2-Chlorophenol	mg/kg	0.011	SL-6	< 0.025 U	--	--	< 0.025 U	--	--	< 0.025 U	--	< 0.025 U	--	< 1 U
2-Methylphenol	mg/kg	0.0058	SL-7	< 0.025 U	--	--	< 0.025 U	--	--	< 0.025 U	--	< 0.025 U	--	< 1 U
2-Nitroaniline	mg/kg	800	SL-1	< 0.012 U	--	--	< 0.012 U	--	--	< 0.012 U	--	< 0.012 U	--	< 0.5 U
2-Nitrophenol	mg/kg			< 0.025 U	--	--	< 0.025 U	--	--	< 0.025 U	--	< 0.025 U	--	< 1 U
3 & 4 Methylphenol	mg/kg			< 0.05 U	--	--	< 0.05 U	--	--	< 0.05 U	--	< 0.05 U	--	< 2 U
3,3'-Dichlorobenzidine	mg/kg	1.1E-05	SL-6	< 0.025 U	--	--	< 0.025 U	--	--	< 0.025 U	--	< 0.025 U	--	< 1 U
3-Nitroaniline	mg/kg			< 0.25 U	--	--	< 0.25 U	--	--	< 0.25 U	--	< 0.25 U	--	< 10 U
4,6-Dinitro-2-methylphenol	mg/kg	0.0073	SL-6	< 0.075 U	--	--	< 0.075 U	--	--	< 0.075 U	--	< 0.075 U	--	< 3 U
4-Bromophenyl phenyl ether	mg/kg			< 0.0025 U	--	--	< 0.0025 U	--	--	< 0.0025 U	--	< 0.0025 U	--	< 0.1 U
4-Chloro-3-methylphenol	mg/kg	0.028	SL-6	< 0.025 U	--	--	< 0.025 U	--	--	< 0.025 U	--	< 0.025 U	--	< 1 U
4-Chloroaniline	mg/kg	5	SL-1	< 0.25 U	--	--	< 0.25 U	--	--	< 0.25 U	--	< 0.25 U	--	< 10 U
4-Chlorophenyl phenyl ether	mg/kg			< 0.0025 U	--	--	< 0.0025 U	--	--	< 0.0025 U	--	< 0.0025 U	--	< 0.1 U
4-Methylphenol	mg/kg	0.062	SL-7	< 0.05 U	--	--	< 0.05 U	--	--	< 0.05 U	--	< 0.05 U	--	< 2 U
4-Nitroaniline	mg/kg	22	SL-9	< 0.25 U	--	--	< 0.25 U	--	--	< 0.25 U	--	< 0.25 U	--	< 10 U
4-Nitrophenol	mg/kg			< 0.075 U	--	--	< 0.075 U	--	--	< 0.075 U	--	< 0.075 U	--	< 3 U
Aniline	mg/kg	180	SL-1	--	--	--	--	--	--	--	--	--	--	--
Benzidine	mg/kg	3.4E-08	SL-6	--	--	--	--	--	--	--	--	--	--	--
Benzoic acid	mg/kg	0.17	SL-7	< 0.12 U	--	--	< 0.12 U	--	--	< 0.12 U	--	< 0.12 U	--	< 5 U
Benzyl alcohol	mg/kg	0.017	SL-7	< 0.025 U	--	--	< 0.025 U	--	--	< 0.025 U	--	< 0.025 U	--	< 1 U
Benzyl butyl phthalate	mg/kg	0.00018	SL-6	< 0.025 U	--	--	< 0.025 U	--	--	< 0.025 U	--	< 0.025 U	--	< 1 U
Bis(2-chloro-1-methylethyl) ether	mg/kg	0.038	SL-6	< 0.0025 U	--	--	< 0.0025 U	--	--	< 0.0025 U	--	< 0.0025 U	--	< 0.1 U
Bis(2-chloroethoxy)methane	mg/kg	240	SL-1	< 0.0025 U	--	--	< 0.0025 U	--	--	< 0.0025 U	--	< 0.0025 U	--	< 0.1 U
Bis(2-chloroethyl) ether	mg/kg	2.2E-05	SL-6	< 0.0025 U	--	--	< 0.0025 U	--	--	< 0.0025 U	--	< 0.0025 U	--	< 0.1 U
bis(2-Chloroisopropyl)ether	mg/kg			--	--	--	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) adipate	mg/kg	830	SL-1	--	--	--	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate	mg/kg	0.0051	SL-6	< 0.04 U	--	--	< 0.04 U	--	--	< 0.04 U	--	< 0.04 U	--	< 1.6 U
Carbazole	mg/kg	79	SL-9	< 0.0025 U	--	--	< 0.0025 U	--	--	< 0.0025 UJ	--	< 0.0025 U	--	< 0.1 UJ
Dibenzofuran	mg/kg	0.029	SL-7	< 0.0025 U	--	--	< 0.0025 U	--	--	< 0.0025 U	--	< 0.0025 U	--	< 0.1 U
Diethyl phthalate	mg/kg	0.034	SL-7	< 0.025 U	--	--	< 0.025 U	--	--	< 0.025 U	--	< 0.025 U	--	< 1 U
Dimethyl phthalate	mg/kg	0.019	SL-7	< 0.025 U	--	--	< 0.025 U	--	--	< 0.025 U	--	< 0.025 U	--	< 1 U
Di-n-butyl phthalate	mg/kg	0.011	SL-9	< 0.025 U	--	--	< 0.025 U	--	--	< 0.025 U	--	< 0.025 U	--	< 1 U
Di-n-octyl phthalate	mg/kg	0.33	SL-7	< 0.025 U	--	--	< 0.025 U	--	--	< 0.025 U	--	< 0.025 U	--	< 1 U
Hexachlorobenzene	mg/kg	4E-07	SL-6	< 0.0025 U	--	--	< 0.0025 U	--	--	< 0.0025 U	--	< 0.0025 U	--	< 0.1 U
Hexachlorobutadiene	mg/kg	1.1E-05	SL-6	< 0.01 U	--	--	< 0.0025 U	< 0.01 U	< 0.01 U	< 0.01 U	--	< 0.01 U	--	< 0.01 U
Hexachlorocyclopentadiene	mg/kg	0.0017	SL-6	< 0.0075 U	--	--	< 0.0075 U	--	--	< 0.0075 U	--	< 0.0075 U	--	< 0.3 U
Hexachloroethane	mg/kg	9.7E-06	SL-6	< 0.0025 U	--	--	< 0.0025 U	--	--	< 0.0025 U	--	< 0.0025 U	--	< 0.1 U
Isophorone	mg/kg	0.039	SL-6	< 0.0025 U	--	--	< 0.0025 U	--	--	< 0.0025 U	--	< 0.0025 U	--	< 0.1 U
Nitrobenzene	mg/kg	0.041	SL-6	< 0.0025 U	--	--	< 0.0025 U	--	--	< 0.0025 U	--	< 0.0025 U	--	< 0.1 U
N-Nitrosodimethylamine	mg/kg	0.00011	SL-6	< 0.0025 U	--	--	< 0.0025 U	--	--	< 0.0025 U	--	< 0.0025 U	--	< 0.1 U
N-Nitroso-di-n-propylamine	mg/kg	3.3E-05	SL-6	< 0.0025 U	--	--	< 0.0025 U	--	--	< 0.0025 U	--	< 0.0025 U	--	< 0.1 U
N-Nitrosodiphenylamine	mg/kg	0.0016	SL-7	< 0.0025 U	--	--	< 0.0025 U	--	--	< 0.0025 UJ	--	< 0.0025 UJ	--	< 0.1 UJ
Pentachlorophenol	mg/kg	1.8E-06	SL-6	< 0.012 U	--	--	< 0.012 U	--	--	< 0.012 U	--	< 0.012 U	--	< 0.5 U
Phenol	mg/kg	0.048	SL-7	< 0.025 U	--	--	< 0.025 U	--	--	< 0.025 U	--	< 0.025 U	--	< 1 U
Pyridine	mg/kg	80	SL-1	--	--	--	--	--	--	--	--	--	--	--

Table I.3.C. Saturated Soil Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL

			Location	SB-38			SB-39			SB-40	SB-41		SB-42	
			Date	09/12/22	09/12/22	09/12/22	09/13/22	09/13/22	09/13/22	09/26/22	09/13/22	09/13/22	09/22/22	09/22/22
			Sample	SB-38-10.5-11.5	SB-38-15-16	SB-38-18.5-19.25	SB-39-7-8	SB-39-10.5-11.5	SB-39-18.5-19.5	SB-40-12-13	SB-41-7-8	SB-41-10-11	SB-42-6-8-TIG	SB-42-10-11
			Depth	10.5 - 11.5 ft	15 - 16 ft	18.5 - 19.25 ft	7 - 8 ft	10.5 - 11.5 ft	18.5 - 19.5 ft	12 - 13 ft	7 - 8 ft	10 - 11 ft	6 - 8 ft	10 - 11 ft
			Geologic Unit	Tidal Flat	Tidal Flat	Tidal Flat	Fill	Tidal Flat	Alluvial	Tidal Flat	Fill	Alluvial	Fill	Tidal Flat
Analyte	Unit	Preliminary RI SL	Basis of SL											
Pesticides														
2,4'-DDD	mg/kg			--	--	--	--	--	--	--	--	--	--	--
2,4'-DDE	mg/kg			--	--	--	--	--	--	--	--	--	--	--
2,4'-DDT	mg/kg			--	--	--	--	--	--	--	--	--	--	--
4,4'-DDD	mg/kg	3.6E-07	SL-6	< 0.001 U	--	< 0.001 U	< 0.001 U	--	< 0.001 U	< 0.001 UJ	--	< 0.001 U	--	< 0.1 U
4,4'-DDE	mg/kg	7.6E-08	SL-6	< 0.001 U	--	< 0.001 U	< 0.001 U	--	< 0.001 U	< 0.001 UJ	--	< 0.001 U	--	**0.2**
4,4'-DDT	mg/kg	8.1E-07	SL-6	< 0.001 U	--	< 0.001 U	< 0.001 U	--	< 0.001 UJ	< 0.001 UJ	--	< 0.001 U	--	< 0.1 U
Aldrin	mg/kg	2E-09	SL-6	< 0.0017 U	--	< 0.0017 U	< 0.0017 U	--	< 0.0017 U	< 0.0017 UJ	--	< 0.0017 U	--	**1.2**
Alpha-BHC	mg/kg	9.8E-08	SL-6	< 0.0005 U	--	< 0.0005 U	< 0.0005 U	--	< 0.0005 U	< 0.0005 UJ	--	< 0.0005 U	--	< 0.05 U
Beta-BHC	mg/kg	3.4E-06	SL-6	< 0.0005 U	--	< 0.0005 U	< 0.0005 U	--	< 0.0005 U	< 0.0005 UJ	--	< 0.0005 U	--	< 0.05 U
Chlordane	mg/kg	1.1E-06	SL-6	--	--	--	--	--	--	--	--	--	--	--
cis-Chlordane	mg/kg	5.3E-06	SL-7	< 0.0005 U	--	< 0.0005 U	< 0.0005 U	--	< 0.0005 U	< 0.0005 UJ	--	< 0.0005 U	--	< 0.05 U
cis-Nonachlor	mg/kg			--	--	--	--	--	--	--	--	--	--	--
Delta-BHC	mg/kg	0.0048	SL-1	< 0.0005 U	--	< 0.0005 U	< 0.0017 U	--	< 0.0017 U	< 0.0017 UJ	--	< 0.0005 U	--	< 0.17 UJ
Dieldrin	mg/kg	1.8E-09	SL-6	< 0.001 U	--	< 0.001 U	< 0.001 U	--	< 0.001 U	< 0.001 UJ	--	< 0.001 U	--	< 0.1 U
Endosulfan I	mg/kg	6.1E-05	SL-6	< 0.0005 U	--	< 0.0005 U	< 0.0005 U	--	< 0.0005 U	< 0.0005 UJ	--	< 0.0005 U	--	< 0.05 U
Endosulfan II	mg/kg	6.1E-05	SL-6	< 0.001 U	--	< 0.001 U	< 0.001 U	--	< 0.001 U	< 0.001 UJ	--	< 0.001 U	--	< 0.1 U
Endosulfan Sulfate	mg/kg	0.1	SL-6	< 0.001 U	--	< 0.001 U	< 0.001 U	--	< 0.001 U	< 0.001 UJ	--	< 0.001 U	--	< 0.1 U
Endrin	mg/kg	2.2E-05	SL-6	< 0.001 U	--	< 0.001 U	< 0.001 U	--	< 0.001 U	< 0.001 UJ	--	< 0.001 U	--	< 0.1 U
Endrin Aldehyde	mg/kg	0.00012	SL-6	< 0.001 U	--	< 0.001 U	< 0.001 U	--	< 0.001 U	< 0.001 UJ	--	< 0.001 U	--	< 0.1 U
Endrin ketone	mg/kg			< 0.001 U	--	< 0.001 U	< 0.001 U	--	< 0.001 U	< 0.001 UJ	--	< 0.001 U	--	< 0.1 U
Heptachlor	mg/kg	3.3E-09	SL-6	< 0.0005 U	--	< 0.0005 U	< 0.0005 U	--	< 0.0005 U	< 0.0005 UJ	--	< 0.0005 U	--	< 0.05 U
Heptachlor Epoxide	mg/kg	2.5E-08	SL-6	< 0.0005 U	--	< 0.0005 U	< 0.0005 U	--	< 0.0005 U	< 0.0005 UJ	--	< 0.0005 U	--	< 0.05 U
Lindane	mg/kg	0.00021	SL-6	< 0.0005 U	--	< 0.0005 U	< 0.0005 U	--	< 0.0005 UJ	< 0.0005 UJ	--	< 0.0005 U	--	< 0.05 U
Methoxychlor	mg/kg	0.0016	SL-6	< 0.005 U	--	< 0.005 U	< 0.005 U	--	< 0.005 U	< 0.005 UJ	--	< 0.005 U	--	< 0.5 U
Mirex	mg/kg	0.00036	SL-6	--	--	--	--	--	--	--	--	--	--	--
Oxychlordane	mg/kg			--	--	--	--	--	--	--	--	--	--	--
Toxaphene	mg/kg	3.1E-06	SL-6	< 0.025 U	--	< 0.025 U	< 0.025 U	--	< 0.025 U	< 0.025 UJ	--	< 0.025 U	--	< 2.5 U
trans-Chlordane	mg/kg	5.3E-06	SL-7	< 0.0017 U	--	< 0.0017 U	< 0.0017 U	--	< 0.0017 U	< 0.0017 UJ	--	< 0.0017 U	--	< 0.17 U
trans-Nonachlor	mg/kg			--	--	--	--	--	--	--	--	--	--	--
Total Petroleum Hydrocarbons (TPH)														
Gasoline Range Organics	mg/kg	30	SL-3	< 5 U	--	--	< 5 U	--	--	< 5 U	--	< 5 U	--	**78**
Diesel Range Organics	mg/kg	2000	SL-9	< 10 U	--	--	< 10 U	--	--	< 10 U	--	< 10 U	--	**1200**
Motor Oil Range Organics	mg/kg	2000	SL-9	< 50 U	--	--	< 50 U	--	--	< 50 U	--	< 50 U	--	**3900**
Diesel and Oil Extended Range Organics	mg/kg	2000	SL-9	< 50 U	--	--	< 50 U	--	--	< 50 U	--	< 50 U	--	**5100**
Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)														
Benzene	mg/kg	0.00056	SL-6	< 0.001 U	--	--	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	--	< 0.001 U	--	**0.016**
Toluene	mg/kg	0.044	SL-6	< 0.002 U	--	--	< 0.001 U	**0.0029**	**0.0012**	< 0.001 U	--	< 0.001 U	--	**0.039**
Ethylbenzene	mg/kg	0.01	SL-6	< 0.001 U	--	--	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	--	< 0.001 U	--	**0.62**
Total Xylenes	mg/kg	0.055	SL-6	< 0.002 U	--	--	< 0.002 U	**0.0056**	< 0.002 U	< 0.002 U	--	< 0.002 U	--	**4.16**
Volatile Organic Compounds (VOCs)														
1,1,1,2-Tetrachloroethane	mg/kg	38	SL-1	< 0.05 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	--	< 0.05 U	--	< 0.05 U
1,1,1-Trichloroethane	mg/kg	21	SL-6	< 0.002 U	--	--	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	--	< 0.002 U	--	< 0.002 U
1,1,2 - Trichlorotrifluoroethane	mg/kg	2400000	SL-1	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	0.00011	SL-6	< 0.05 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	--	< 0.05 U	--	< 0.05 U
1,1,2-Trichloroethane	mg/kg	0.00033	SL-6	< 0.005 U	--	--	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	--	< 0.005 U	--	< 0.005 U
1,1-Dichloroethane	mg/kg	180	SL-1	< 0.002 U	--	--	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	--	< 0.002 U	--	**0.0022**
1,1-Dichloroethene	mg/kg	1.4	SL-6	< 0.001 U	--	--	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	--	< 0.001 U	--	< 0.001 U
1,1-Dichloropropene	mg/kg			< 0.05 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	--	< 0.05 U	--	< 0.05 U
1,2,3-Trichlorobenzene	mg/kg	64	SL-9	< 0.25 U	--	--	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	--	< 0.25 U	--	< 0.25 U
1,2,3-Trichloropropane	mg/kg	0.0063	SL-1	< 0.05 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	--	< 0.05 U	--	< 0.05 U
1,2,4-Trichlorobenzene	mg/kg	7.2E-05	SL-6	< 0.01 U	--	--	< 0.0025 U	< 0.01 U	< 0.01 U	< 0.01 U	--	< 0.0025 U	--	< 0.01 U
1,2,4-Trimethylbenzene	mg/kg	800	SL-1	< 0.05 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	--	< 0.05 U	--	**1.5**
1,2-Dibromo-3-chloropropane	mg/kg	0.23	SL-1	< 0.5 U	--	--	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	--	< 0.5 U	--	< 0.5 U
1,2-Dibromoethane (EDB)	mg/kg	0.5	SL-1	< 0.005 U	--	--	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	--	< 0.005 U	--	< 0.005 U
1,2-Dichlorobenzene	mg/kg	0.003	SL-7	< 0.05 U	--	--	< 0.0025 U	< 0.05 U	< 0.05 U	< 0.05 U	--	< 0.05 U	--	**0.083**
1,2-Dichloroethane (EDC)	mg/kg	0.024	SL-6	< 0.002 U	--	--	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	--	< 0.002 U	--	< 0.002 U
1,2-Dichloropropane	mg/kg	0.001	SL-6	< 0.05 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	--	< 0.05 U	--	< 0.05 U
1,3,5-Trimethylbenzene	mg/kg	800	SL-1	< 0.05 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	--	< 0.05 U	--	**0.36**
1,3-Dichlorobenzene	mg/kg	0.0013	SL-6	< 0.05 U	--	--	< 0.0025 U	< 0.05 U	< 0.05 U	< 0.0025 U	--	< 0.0025 U	--	< 0.05 U
1,3-Dichloropropane	mg/kg	0.00043	SL-6	< 0.05 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	--	< 0.05 U	--	< 0.05 U
1,4-Dichloro-2-Butene	mg/kg			--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	0.0081	SL-7	< 0.0025 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	--	< 0.0025 U	--	< 0.05 U
2,2-Dichloropropane	mg/kg			< 0.05 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	--	< 0.05 U	--	< 0.05 U
2-Butanone	mg/kg	350	SL-9	< 1 U	--	--	< 1 U	< 1 U	< 1 U	< 1 U	--	< 1 U	--	< 1 U
2-Chloroethyl Vinyl Ether	mg/kg			--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	1600	SL-1	< 0.05 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	--	< 0.05 U	--	< 0.05 U
2-Hexanone	mg/kg	400	SL-1	< 0.5 U	--	--	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	--	< 0.5 U	--	< 0.5 U
2-Pentanone	mg/kg			--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	1600	SL-1	< 0.05 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	--	< 0.05 U	--	< 0.05 U
4-Methyl-2-pentanone	mg/kg	6400	SL-1	< 1 U	--	--	< 1 U	< 1 U	< 1 U	< 1 U	--	< 1 U	--	< 1 U
Acetone	mg/kg	1.2	SL-9	< 5 U	--	--	< 5 U	< 5 U	< 5 U	< 5 U	--	< 5 U	--	< 5 U
Acrolein	mg/kg	0.00032	SL-6	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	mg/kg	8.3E-06	SL-6	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	mg/kg	640	SL-1	< 0.05 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	--	< 0.05 U	--	< 0.05 U
Bromochloromethane	mg/kg			--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	0.00089	SL-6	< 0.005 U	--	--	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	--	< 0.005 U	--	< 0.005 U
Bromoform	mg/kg	0.005	SL-6	< 0.05 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	--	< 0.05 U	--	< 0.05 U
Bromomethane	mg/kg	0.079	SL-6	< 0.1 U	--	--	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	--	< 0.1 U	--	< 0.1 U
Carbon Disulfide	mg/kg	0.81	SL-9	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	0.00015	SL-6	< 0.005 U	--	--	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	--	< 0.005 U	--	< 0.005 U
Chlorobenzene	mg/kg	0.1	SL-6	< 0.05 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	--	< 0.05 U	--	< 0.05 U
Chloroethane	mg/kg			< 0.1 U	--	--	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	--	< 0.1 U	--	< 0.1 U
Chloroform	mg/kg	0.052	SL-6	< 0.05 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	--	< 0.05 U	--	< 0.05 U
Chloromethane	mg/kg			< 0.5 U	--	--	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	--	< 0.5 U	--	< 0.5 U
cis-1,2-Dichloroethene (DCE)	mg/kg	24	SL-9	< 0.001 U	--	--	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	--	< 0.001 U	--	**0.0058**
cis-1,3-Dichloropropene	mg/kg	0.00038	SL-6	< 0.01 U	--	--	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	--	< 0.01 U	--	< 0.01 U
Dibromochloromethane	mg/kg	0.00070	SL-6	< 0.01 U	--	--	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	--	< 0.01 U	--	< 0.01 U
Dibromomethane	mg/kg	800	SL-1	< 0.05 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	--	< 0.05 U	--	< 0.05 U
Dichlorodifluoromethane	mg/kg	16000	SL-1	< 0.5 U	--	--	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	--	< 0.5 U	--	< 0.5 U
Isopropylbenzene	mg/kg	8000	SL-1	< 0.05 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	--	< 0.05 U	--	**0.18**
m,p-Xylenes	mg/kg			< 0.002 U	--	--	< 0.002 U	**0.0044**	< 0.002 U	< 0.002 U	--	< 0.002 U	--	**3.9**
Methyl tert-butyl ether (MTBE)	mg/kg	560	SL-1	< 0.001 U	--	--	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	--	< 0.001 U	--	< 0.001 U
Methylene Chloride	mg/kg	0.030	SL-6	< 0.2 U	--	--	< 0.2 U	R	R	R	--	< 0.2 U	--	R
Methyliodide	mg/kg			--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	mg/kg	4000	SL-1	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	mg/kg	4800	SL-1	< 0.25 U	--	--	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	--	< 0.25 U	--	< 0.25 U
n-Propylbenzene	mg/kg	8000	SL-1	< 0.05 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	--	< 0.05 U	--	**0.25**
o-Xylene	mg/kg			< 0.001 U	--	--	< 0.001 U	**0.0012**	< 0.001 U	< 0.001 U	--	< 0.001 U	--	**0.26**
p-Isopropyltoluene	mg/kg	320	SL-1	< 0.05 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	--	< 0.05 U	--	**0.23**
sec-Butylbenzene	mg/kg	8000	SL-1	< 0.05 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	--	< 0.05 U	--	**0.15**
Styrene	mg/kg	4.7	SL-9	< 0.05 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	--	< 0.05 U	--	< 0.05 U
tert-Butylbenzene	mg/kg	8000	SL-1	< 0.05 U	--	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	--	< 0.05 U	--	**0.21**
Tetrachloroethene (PCE)	mg/kg	0.0016	SL-6	< 0.001 U	--	--	**0.011**	< 0.001 U	< 0.001 U	< 0.001 U	--	< 0.001 U	--	**0.0033**
trans-1,2-Dichloroethene	mg/kg	0.32	SL-6	< 0.002 U	--	--	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	--	< 0.002 U	--	< 0.002 U
trans-1,3-Dichloropropene	mg/kg	0.00038	SL-6	< 0.01 U	--	--	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	--	< 0.01 U	--	< 0.01 U
Trichloroethene (TCE)	mg/kg	0.00027	SL-6	< 0.001 U	--	--	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	--	< 0.001 U	--	**0.0062**
Trichlorofluoromethane	mg/kg	24000	SL-1	< 0.5 U	--	--	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	--	< 0.5 U	--	< 0.5 U
Vinyl Acetate	mg/kg	80000	SL-1	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg	5.6E-05	SL-6	< 0.001 U	--	--	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	--	< 0.001 U	--	**0.001**
Conventionals														
Total Organic Carbon	%			--	--	--	--	--	--	--	--	--	--	--
Total Solids	%			--	--	--	--	--	--	--	--	--	**86.3**	--

Table I.3.C. Saturated Soil Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL

			Location	**SB-43**		
			Date	09/26/22	09/26/22	09/26/22
			Sample	SB-43-8-9	SB-43-10-11	SB-43-11-12
			Depth	8 - 9 ft	10 - 11 ft	11 - 12 ft
			Geologic Unit	Fill	Tidal Flat	Alluvial
Analyte	Unit	Preliminary RI SL	Basis of SL			
Metals, Total						
Arsenic	mg/kg	7.3	SL-10	**2.8**	--	**2.67**
Barium	mg/kg	250	SL-10	--	--	--
Cadmium	mg/kg	0.77	SL-10	< 0.2 U	--	< 0.2 U
Chromium	mg/kg	67	SL-9	**9.59**	--	**10.7**
Copper	mg/kg	36	SL-10	**12.4**	--	**8.78 J**
Lead	mg/kg	81	SL-6	**3.42**	--	**1.84**
Mercury	mg/kg	0.07	SL-10	**0.046**	--	< 0.025 U
Nickel	mg/kg	48	SL-10	**8.77**	--	**6.62**
Selenium	mg/kg	0.78	SL-10	--	--	--
Silver	mg/kg	0.61	SL-10	--	--	--
Zinc	mg/kg	85	SL-10	**24**	--	**17.4**
Butyl Tins						
Dibutyltin Ion	mg/kg			< 0.00576 U	< 0.00576 U	< 0.00573 U
Monobutyltin	mg/kg			< 0.00407 U	< 0.00407 U	< 0.00404 U
Tetrabutyltin	mg/kg			< 0.00499 U	< 0.00498 U	< 0.00496 U
Tributyltin Ion	mg/kg	0.00011	SL-7	< 0.00385 U	< 0.00385 U	< 0.00383 U
Polychlorinated Biphenyl (PCB) Aroclors						
Total PCB Aroclors (ND = 0)	mg/kg	5.5E-07	SL-6	**0.054**	--	< 0.004 U
Polychlorinated Biphenyl (PCB) Congeners						
Total PCB Congeners (ND = 0)	mg/kg	5.5E-07	SL-6	--	--	--
Total PCB TEQ (ND = 0)	mg/kg	3.5E-10	SL-6	--	--	--
Dioxins/Furans						
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	5.2E-06	SL-10	--	--	--
2,3,7,8-TCDD	mg/kg	5.2E-06	SL-10	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)						
1-Methylnaphthalene	mg/kg	20	SL-1	**0.00072**	< 0.01 U	< 0.0005 U
2-Methylnaphthalene	mg/kg	0.039	SL-7	**0.0011**	< 0.01 U	< 0.0005 U
Acenaphthene	mg/kg	0.028	SL-7	< 0.0005 U	< 0.01 U	< 0.0005 U
Acenaphthylene	mg/kg	1.3	SL-8	< 0.0005 U	< 0.01 U	< 0.0005 U
Anthracene	mg/kg	0.051	SL-7	**0.00079**	< 0.01 U	< 0.0005 U
Benzo(g,h,i)perylene	mg/kg	0.67	SL-8	< 0.0005 U	< 0.01 U	< 0.0005 U
Fluoranthene	mg/kg	0.09	SL-7	**0.0024**	< 0.01 U	< 0.0005 U
Fluorene	mg/kg	0.029	SL-7	**0.00076**	< 0.01 U	< 0.0005 U
Naphthalene	mg/kg	0.0021	SL-6	< 0.005 U	< 0.01 U	< 0.005 U
Phenanthrene	mg/kg	1.5	SL-8	**0.0027**	< 0.01 U	**0.00068**
Pyrene	mg/kg	0.14	SL-7	**0.0029**	< 0.01 U	< 0.0005 U
Benz(a)anthracene	mg/kg	0.73	SL-9	**0.00066**	< 0.01 U	< 0.0005 U
Benzo(a)pyrene	mg/kg	1.6E-05	SL-6	**0.00052**	< 0.01 U	< 0.0005 U
Benzo(b)fluoranthene	mg/kg	44	SL-9	**0.00073**	< 0.01 U	< 0.0005 U
Benzo(j)fluoranthene	mg/kg			--	--	--
Benzo(j,k)fluoranthene	mg/kg			--	--	--
Benzo(k)fluoranthene	mg/kg	71	SL-9	< 0.0005 U	< 0.01 U	< 0.0005 U
Chrysene	mg/kg	1.4	SL-8	**0.001**	< 0.01 U	< 0.0005 U
Dibenzo(a,h)anthracene	mg/kg	0.23	SL-8	< 0.0005 U	< 0.01 U	< 0.0005 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.6	SL-8	< 0.0005 U	< 0.01 U	< 0.0005 U
Total Benzofluoranthenes	mg/kg	1.1	SL-9	**0.00098**	< 0.01 U	< 0.0005 U
Total HPAHs (ND = 1/2 RDL)	mg/kg	1.1	SL-9	**0.00921**	< 0.01 U	< 0.0005 U
Total LPAHs (ND = 1/2 RDL)	mg/kg	5.2	SL-8	**0.00725**	< 0.01 U	**0.00418**
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	1.6E-05	SL-6	**0.000744**	< 0.00755 U	< 0.000378 U
Semi-Volatile Organic Compounds (SVOCs)						
1,2-Dinitrobenzene	mg/kg	8	SL-1	--	--	--
1,2-Diphenylhydrazine	mg/kg	3.6E-05	SL-6	< 0.0025 U	--	< 0.0025 U
1,3-Dinitrobenzene	mg/kg	8	SL-1	--	--	--
1,4-Dinitrobenzene	mg/kg	8	SL-1	--	--	--
2,3,4,6-Tetrachlorophenol	mg/kg	2400	SL-1	--	--	--
2,3,5,6-Tetrachlorophenol	mg/kg			--	--	--
2,3-Dichloroaniline	mg/kg			--	--	--
2,4,5-Trichlorophenol	mg/kg	1.1	SL-6	< 0.025 U	--	< 0.025 U
2,4,6-Trichlorophenol	mg/kg	0.00019	SL-6	< 0.025 U	--	< 0.025 U
2,4-Dichlorophenol	mg/kg	0.0043	SL-6	< 0.025 U	--	< 0.025 U
2,4-Dimethylphenol	mg/kg	0.0023	SL-7	< 0.025 U	--	< 0.025 U
2,4-Dinitrophenol	mg/kg	0.029	SL-6	< 0.075 U	--	< 0.075 U
2,4-Dinitrotoluene	mg/kg	0.00016	SL-6	< 0.012 U	--	< 0.012 U
2,6-Dinitrotoluene	mg/kg	0.67	SL-1	< 0.012 U	--	< 0.012 U
2-Chloronaphthalene	mg/kg	0.28	SL-6	< 0.0025 U	--	< 0.0025 U
2-Chlorophenol	mg/kg	0.011	SL-6	< 0.025 U	--	< 0.025 U
2-Methylphenol	mg/kg	0.0058	SL-7	< 0.025 U	--	< 0.025 U
2-Nitroaniline	mg/kg	800	SL-1	< 0.012 U	--	< 0.012 U
2-Nitrophenol	mg/kg			< 0.025 U	--	< 0.025 U
3 & 4 Methylphenol	mg/kg			< 0.05 U	--	< 0.05 U
3,3'-Dichlorobenzidine	mg/kg	1.1E-05	SL-6	< 0.025 U	--	< 0.025 U
3-Nitroaniline	mg/kg			< 0.25 U	--	< 0.25 U
4,6-Dinitro-2-methylphenol	mg/kg	0.0073	SL-6	< 0.075 U	--	< 0.075 U
4-Bromophenyl phenyl ether	mg/kg			< 0.0025 U	--	< 0.0025 U
4-Chloro-3-methylphenol	mg/kg	0.028	SL-6	< 0.025 U	--	< 0.025 U
4-Chloroaniline	mg/kg	5	SL-1	< 0.25 U	--	< 0.25 U
4-Chlorophenyl phenyl ether	mg/kg			< 0.0025 U	--	< 0.0025 U
4-Methylphenol	mg/kg	0.062	SL-7	< 0.05 UJ	--	< 0.05 U
4-Nitroaniline	mg/kg	22	SL-9	< 0.25 U	--	< 0.25 U
4-Nitrophenol	mg/kg			< 0.075 U	--	< 0.075 U
Aniline	mg/kg	180	SL-1	--	--	--
Benzidine	mg/kg	3.4E-08	SL-6	--	--	--
Benzoic acid	mg/kg	0.17	SL-7	< 0.12 U	--	< 0.12 U
Benzyl alcohol	mg/kg	0.017	SL-7	< 0.025 U	--	< 0.025 U
Benzyl butyl phthalate	mg/kg	0.00018	SL-6	< 0.025 U	--	< 0.025 U
Bis(2-chloro-1-methylethyl) ether	mg/kg	0.038	SL-6	< 0.0025 U	--	< 0.0025 U
Bis(2-chloroethoxy)methane	mg/kg	240	SL-1	< 0.0025 U	--	< 0.0025 U
Bis(2-chloroethyl) ether	mg/kg	2.2E-05	SL-6	< 0.0025 U	--	< 0.0025 U
bis(2-Chloroisopropyl)ether	mg/kg			--	--	--
Bis(2-ethylhexyl) adipate	mg/kg	830	SL-1	--	--	--
Bis(2-ethylhexyl) phthalate	mg/kg	0.0051	SL-6	< 0.04 U	--	< 0.04 U
Carbazole	mg/kg	79	SL-9	< 0.0025 UJ	--	< 0.0025 UJ
Dibenzofuran	mg/kg	0.029	SL-7	< 0.0025 U	--	< 0.0025 U
Diethyl phthalate	mg/kg	0.034	SL-7	< 0.025 U	--	< 0.025 U
Dimethyl phthalate	mg/kg	0.019	SL-7	< 0.025 U	--	< 0.025 U
Di-n-butyl phthalate	mg/kg	0.011	SL-9	< 0.025 U	--	< 0.025 U
Di-n-octyl phthalate	mg/kg	0.33	SL-7	< 0.025 U	--	< 0.025 U
Hexachlorobenzene	mg/kg	4E-07	SL-6	< 0.0025 U	--	< 0.0025 U
Hexachlorobutadiene	mg/kg	1.1E-05	SL-6	< 0.0025 U	--	< 0.01 U
Hexachlorocyclopentadiene	mg/kg	0.0017	SL-6	< 0.0075 U	--	< 0.0075 U
Hexachloroethane	mg/kg	9.7E-06	SL-6	< 0.0025 U	--	< 0.0025 U
Isophorone	mg/kg	0.039	SL-6	< 0.0025 U	--	< 0.0025 U
Nitrobenzene	mg/kg	0.041	SL-6	< 0.0025 U	--	< 0.0025 U
N-Nitrosodimethylamine	mg/kg	0.00011	SL-6	< 0.0025 U	--	< 0.0025 U
N-Nitroso-di-n-propylamine	mg/kg	3.3E-05	SL-6	< 0.0025 U	--	< 0.0025 U
N-Nitrosodiphenylamine	mg/kg	0.0016	SL-7	< 0.0025 UJ	--	< 0.0025 UJ
Pentachlorophenol	mg/kg	1.8E-06	SL-6	< 0.012 U	--	< 0.012 U
Phenol	mg/kg	0.048	SL-7	< 0.025 U	--	< 0.025 U
Pyridine	mg/kg	80	SL-1	--	--	--

Table I.3.C. Saturated Soil Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Gray - Non-detected result exceeded Preliminary RI SL
Purple Shaded - Detected result exceeded Preliminary RI SL

			Location	SB-43		
			Date	09/26/22	09/26/22	09/26/22
			Sample	SB-43-8-9	SB-43-10-11	SB-43-11-12
			Depth	8 - 9 ft	10 - 11 ft	11 - 12 ft
			Geologic Unit	Fill	Tidal Flat	Alluvial
Analyte	Unit	Preliminary RI SL	Basis of SL			
Pesticides						
2,4'-DDD	mg/kg			--	--	--
2,4'-DDE	mg/kg			--	--	--
2,4'-DDT	mg/kg			--	--	--
4,4'-DDD	mg/kg	3.6E-07	SL-6	< 0.001 U	< 0.01 UJ	< 0.001 U
4,4'-DDE	mg/kg	7.6E-08	SL-6	**0.0052**	< 0.01 UJ	< 0.001 U
4,4'-DDT	mg/kg	8.1E-07	SL-6	< 0.001 U	< 0.01 UJ	< 0.001 U
Aldrin	mg/kg	2E-09	SL-6	< 0.0017 U	< 0.01 UJ	< 0.0017 U
Alpha-BHC	mg/kg	9.8E-08	SL-6	< 0.0005 U	< 0.01 UJ	< 0.0005 U
Beta-BHC	mg/kg	3.4E-06	SL-6	< 0.0005 U	< 0.01 UJ	< 0.0005 U
Chlordane	mg/kg	1.1E-06	SL-6	--	--	--
cis-Chlordane	mg/kg	5.3E-06	SL-7	< 0.0005 U	< 0.01 UJ	< 0.0005 U
cis-Nonachlor	mg/kg			--	--	--
Delta-BHC	mg/kg	0.0048	SL-1	< 0.0017 UJ	**0.017 J**	< 0.0017 UJ
Dieldrin	mg/kg	1.8E-09	SL-6	< 0.001 U	< 0.01 UJ	**0.0016**
Endosulfan I	mg/kg	6.1E-05	SL-6	< 0.0005 U	< 0.01 UJ	< 0.0005 U
Endosulfan II	mg/kg	6.1E-05	SL-6	< 0.001 U	< 0.01 UJ	< 0.001 U
Endosulfan Sulfate	mg/kg	0.1	SL-6	< 0.001 U	< 0.01 UJ	< 0.001 U
Endrin	mg/kg	2.2E-05	SL-6	< 0.001 U	< 0.01 UJ	< 0.001 U
Endrin Aldehyde	mg/kg	0.00012	SL-6	< 0.001 U	< 0.01 UJ	< 0.001 U
Endrin ketone	mg/kg			< 0.001 U	< 0.05 UJ	< 0.001 U
Heptachlor	mg/kg	3.3E-09	SL-6	< 0.0005 U	< 0.01 UJ	< 0.0005 U
Heptachlor Epoxide	mg/kg	2.5E-08	SL-6	**0.00092**	< 0.01 UJ	< 0.0005 U
Lindane	mg/kg	0.00021	SL-6	< 0.0005 U	< 0.01 UJ	< 0.0005 U
Methoxychlor	mg/kg	0.0016	SL-6	< 0.005 U	< 0.01 UJ	< 0.005 U
Mirex	mg/kg	0.00036	SL-6	--	--	--
Oxychlordane	mg/kg			--	--	--
Toxaphene	mg/kg	3.1E-06	SL-6	< 0.025 U	< 1 UJ	< 0.025 U
trans-Chlordane	mg/kg	5.3E-06	SL-7	< 0.0017 U	< 0.01 UJ	< 0.0017 U
trans-Nonachlor	mg/kg			--	--	--
Total Petroleum Hydrocarbons (TPH)						
Gasoline Range Organics	mg/kg	30	SL-3	< 5 U	--	< 5 U
Diesel Range Organics	mg/kg	2000	SL-9	< 10 U	--	< 10 U
Motor Oil Range Organics	mg/kg	2000	SL-9	< 50 U	--	< 50 U
Diesel and Oil Extended Range Organics	mg/kg	2000	SL-9	< 50 U	--	< 50 U
Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)						
Benzene	mg/kg	0.00056	SL-6	< 0.001 U	--	< 0.001 U
Toluene	mg/kg	0.044	SL-6	< 0.001 U	--	< 0.001 U
Ethylbenzene	mg/kg	0.01	SL-6	< 0.001 U	--	< 0.001 U
Total Xylenes	mg/kg	0.055	SL-6	< 0.002 U	--	< 0.002 U
Volatile Organic Compounds (VOCs)						
1,1,1,2-Tetrachloroethane	mg/kg	38	SL-1	< 0.05 U	--	< 0.05 U
1,1,1-Trichloroethane	mg/kg	21	SL-6	< 0.002 U	--	< 0.002 U
1,1,2 - Trichlorotrifluoroethane	mg/kg	2400000	SL-1	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	0.00011	SL-6	< 0.05 U	--	< 0.05 U
1,1,2-Trichloroethane	mg/kg	0.00033	SL-6	< 0.005 U	--	< 0.005 U
1,1-Dichloroethane	mg/kg	180	SL-1	< 0.002 U	--	< 0.002 U
1,1-Dichloroethene	mg/kg	1.4	SL-6	< 0.001 U	--	< 0.001 U
1,1-Dichloropropene	mg/kg			< 0.05 U	--	< 0.05 U
1,2,3-Trichlorobenzene	mg/kg	64	SL-9	< 0.25 U	--	< 0.25 U
1,2,3-Trichloropropane	mg/kg	0.0063	SL-1	< 0.05 U	--	< 0.05 U
1,2,4-Trichlorobenzene	mg/kg	7.2E-05	SL-6	< 0.01 U	--	< 0.01 U
1,2,4-Trimethylbenzene	mg/kg	800	SL-1	< 0.05 U	--	< 0.05 U
1,2-Dibromo-3-chloropropane	mg/kg	0.23	SL-1	< 0.5 U	--	< 0.5 U
1,2-Dibromoethane (EDB)	mg/kg	0.5	SL-1	< 0.005 U	--	< 0.005 U
1,2-Dichlorobenzene	mg/kg	0.003	SL-7	< 0.05 U	--	< 0.05 U
1,2-Dichloroethane (EDC)	mg/kg	0.024	SL-6	< 0.002 U	--	< 0.002 U
1,2-Dichloropropane	mg/kg	0.001	SL-6	< 0.05 U	--	< 0.05 U
1,3,5-Trimethylbenzene	mg/kg	800	SL-1	< 0.05 U	--	< 0.05 U
1,3-Dichlorobenzene	mg/kg	0.0013	SL-6	< 0.05 U	--	< 0.05 U
1,3-Dichloropropane	mg/kg	0.00043	SL-6	< 0.05 U	--	< 0.05 U
1,4-Dichloro-2-Butene	mg/kg			--	--	--
1,4-Dichlorobenzene	mg/kg	0.0081	SL-7	< 0.05 U	--	< 0.0025 U
2,2-Dichloropropane	mg/kg			< 0.05 U	--	< 0.05 U
2-Butanone	mg/kg	350	SL-9	< 1 U	--	< 1 U
2-Chloroethyl Vinyl Ether	mg/kg			--	--	--
2-Chlorotoluene	mg/kg	1600	SL-1	< 0.05 U	--	< 0.05 U
2-Hexanone	mg/kg	400	SL-1	< 0.5 U	--	< 0.5 U
2-Pentanone	mg/kg			--	--	--
4-Chlorotoluene	mg/kg	1600	SL-1	< 0.05 U	--	< 0.05 U
4-Methyl-2-pentanone	mg/kg	6400	SL-1	< 1 U	--	< 1 U
Acetone	mg/kg	1.2	SL-9	< 5 U	--	< 5 U
Acrolein	mg/kg	0.00032	SL-6	--	--	--
Acrylonitrile	mg/kg	8.3E-06	SL-6	--	--	--
Bromobenzene	mg/kg	640	SL-1	< 0.05 U	--	< 0.05 U
Bromochloromethane	mg/kg			--	--	--
Bromodichloromethane	mg/kg	0.00089	SL-6	< 0.005 U	--	< 0.005 U
Bromoform	mg/kg	0.005	SL-6	< 0.05 U	--	< 0.05 U
Bromomethane	mg/kg	0.079	SL-6	< 0.1 U	--	< 0.1 U
Carbon Disulfide	mg/kg	0.81	SL-9	--	--	--
Carbon Tetrachloride	mg/kg	0.00015	SL-6	< 0.005 U	--	< 0.005 U
Chlorobenzene	mg/kg	0.1	SL-6	< 0.05 U	--	< 0.05 U
Chloroethane	mg/kg			< 0.1 U	--	< 0.1 U
Chloroform	mg/kg	0.052	SL-6	< 0.05 U	--	< 0.05 U
Chloromethane	mg/kg			< 0.5 U	--	< 0.5 U
cis-1,2-Dichloroethene (DCE)	mg/kg	24	SL-9	< 0.001 U	--	< 0.001 U
cis-1,3-Dichloropropene	mg/kg	0.00038	SL-6	< 0.01 U	--	< 0.01 U
Dibromochloromethane	mg/kg	0.00070	SL-6	< 0.01 U	--	< 0.01 U
Dibromomethane	mg/kg	800	SL-1	< 0.05 U	--	< 0.05 U
Dichlorodifluoromethane	mg/kg	16000	SL-1	< 0.5 U	--	< 0.5 U
Isopropylbenzene	mg/kg	8000	SL-1	< 0.05 U	--	< 0.05 U
m,p-Xylenes	mg/kg			< 0.002 U	--	< 0.002 U
Methyl tert-butyl ether (MTBE)	mg/kg	560	SL-1	< 0.001 U	--	< 0.001 U
Methylene Chloride	mg/kg	0.030	SL-6	R	--	R
Methyliodide	mg/kg			--	--	--
n-Butylbenzene	mg/kg	4000	SL-1	--	--	--
n-Hexane	mg/kg	4800	SL-1	< 0.25 U	--	< 0.25 U
n-Propylbenzene	mg/kg	8000	SL-1	< 0.05 U	--	< 0.05 U
o-Xylene	mg/kg			< 0.001 U	--	< 0.001 U
p-Isopropyltoluene	mg/kg	320	SL-1	< 0.05 U	--	< 0.05 U
sec-Butylbenzene	mg/kg	8000	SL-1	< 0.05 U	--	< 0.05 U
Styrene	mg/kg	4.7	SL-9	< 0.05 U	--	< 0.05 U
tert-Butylbenzene	mg/kg	8000	SL-1	< 0.05 U	--	< 0.05 U
Tetrachloroethene (PCE)	mg/kg	0.0016	SL-6	< 0.001 U	--	< 0.001 U
trans-1,2-Dichloroethene	mg/kg	0.32	SL-6	< 0.002 U	--	< 0.002 U
trans-1,3-Dichloropropene	mg/kg	0.00038	SL-6	< 0.01 U	--	< 0.01 U
Trichloroethene (TCE)	mg/kg	0.00027	SL-6	< 0.001 U	--	< 0.001 U
Trichlorofluoromethane	mg/kg	24000	SL-1	< 0.5 U	--	< 0.5 U
Vinyl Acetate	mg/kg	80000	SL-1	--	--	--
Vinyl Chloride	mg/kg	5.6E-05	SL-6	< 0.001 U	--	< 0.001 U
Conventionals						
Total Organic Carbon	%			--	--	--
Total Solids	%			--	--	--

Table I.3.C. Saturated Soil Analytical Results

South Park Marina Site, Seattle, Washington

Notes:

Bold - detected

mg/kg = milligrams per kilogram

"--" = Results not available

U = Analyte not detected at or above Reporting Limit (RL) shown

J = Result value estimated

UJ = Analyte not detected, and the Reporting Limit (RL) is an estimate

R = Rejected, refer to data validation report

RDL = reported detection limit

RI = Remedial Investigation

SL = screening level

MTCA = Model Toxics Control Act

PCB = polychlorinated biphenyl

All soil/solids concentrations are on a dry-weight basis.

Vadose zone is considered from ground surface to 6 feet below ground surface (bgs).

Total PCB Arolclors (ND = 0) are the sum of Aroclors presented, with nondetects = 0, unless all Aroclors were not detected, in which case the Total PCB Aroclors concentration is shown as non-detect at the maximum reporting limit for any individual Aroclor presented.

Total PCB Congeners (ND = 0) and Total PCB TEQ (ND = 0) are summed with nondetects = 0.

LPAHs = low molecular weight polycyclic aromatic hydrocarbons: naphthalene, acenaphthylene, acenaphethene, fluorene, phenanthrene, and anthracene.
HPAHs = high molecular weight polycyclic aromatic hydrocarbons: fluoranthene, pyrene, benz(a)anthracene, chrysene, total benzofluoranthenes, benzo(a)pyrene, indeno(1,2,3,-c,d)pyrene, dibenzo(a,h)anthracene, and benzo(g,h,i)perylene.
cPAHs = carcinogenic polycyclic aromatic hydrocarbons: benzo(a)pyrene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene.

TEQ = toxic equivalency

Screening Level Codes:

SL-1	Direct Contact Unrestricted
SL-6	Protect Surface Water via Groundwater - Saturated Zone
SL-7	Protect Sediment via Groundwater - Saturated Zone
SL-8	Protect Sediment via Erosion
SL-9	Site-Specific Terrestrial Ecological Evaluation Unrestricted
SL-10	Natural Background

Screening Level Notes:

Screening level shading is hierarchical: If only nondetect values exceed the screening level, the screening level is shaded grey; if detected results (and potentially nondetected results) exceed the screening level, the screening level is shaded blue.

Gray Shaded - Nondetect result has a reporting limit that exceeds a screening level.

Blue Shaded - Detected result exceeded the screening level.

Table I.3.D. Catch Basin Solids Analytical Results

South Park Marina Site, Seattle, Washington

Location		CB-01	CB-02		CB-03	CB-04	CB-05	
Date		02/11/2016	02/11/2016	04/20/2021	02/11/2016	02/11/2016	02/11/2016	10/07/2022
Sample		SPM-CB-01-02112016	SPM-CB-02-02112016	CB-02-210420	SPM-CB-03-02112016	SPM-CB-04-02112016	SPM-CB-05-02112016	CB-05-221007
Analyte	**Unit**							
Metals, Total								
Antimony	mg/kg	--	--	--	--	--	--	--
Arsenic	mg/kg	--	--	**18.4**	--	--	--	**49.4**
Barium	mg/kg	--	--	--	--	--	--	--
Beryllium	mg/kg	--	--	--	--	--	--	--
Cadmium	mg/kg	--	--	**3.85**	--	--	--	**2.11**
Chromium	mg/kg	--	--	**116**	--	--	--	**83.5**
Copper	mg/kg	--	--	**1850**	--	--	--	**1310**
Lead	mg/kg	--	--	**396**	--	--	--	**273**
Mercury	mg/kg	--	--	**0.178 J**	--	--	--	**0.18**
Nickel	mg/kg	--	--	**68.7**	--	--	--	**30.9**
Selenium	mg/kg	--	--	--	--	--	--	--
Silver	mg/kg	--	--	--	--	--	--	--
Thallium	mg/kg	--	--	--	--	--	--	--
Zinc	mg/kg	--	--	**7330**	--	--	--	**642**
Butyl Tins								
Dibutyltin Ion	mg/kg	--	--	**0.262 J**	--	--	--	--
Monobutyltin	mg/kg	--	--	**0.128 J**	--	--	--	--
Tetrabutyltin	mg/kg	--	--	< 0.00499 UJ	--	--	--	--
Tributyltin Ion	mg/kg	--	--	**0.91 J**	--	--	--	--
Polychlorinated Biphenyl (PCBs) Aroclors								
Total PCB Aroclors (ND = 0)	mg/kg	< 4 U	**0.57**	**0.464 J**	< 20 U	< 0.8 U	**0.78 J**	--
Polychlorinated Biphenyl (PCBs) Congeners								
Total PCB Congeners (ND = 0)	mg/kg	**0.158 J**	**0.395**	--	**0.0507 J**	**0.0634 J**	**0.453 J**	--
Total PCB TEQ (ND = 0)	mg/kg	**1.57E-05 J**	**1.33E-05**	--	**4.99E-06 J**	**4.14E-06 J**	**2.05E-05 J**	--
Dioxins/Furans								
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	--	--	**9.53E-05 J**	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)								
1-Methylnaphthalene	mg/kg	--	--	**0.248**	--	--	--	--
2-Methylnaphthalene	mg/kg	--	--	**0.385**	--	--	--	< 0.05 U
Acenaphthene	mg/kg	--	--	**0.038 J**	--	--	--	< 0.05 U
Acenaphthylene	mg/kg	--	--	**0.0743**	--	--	--	--
Anthracene	mg/kg	--	--	**0.0858**	--	--	--	< 0.05 U
Benzo(g,h,i)perylene	mg/kg	--	--	**0.775**	--	--	--	**0.073**
Fluoranthene	mg/kg	--	--	**1.6**	--	--	--	**0.18**
Fluorene	mg/kg	--	--	**0.12**	--	--	--	< 0.05 U
Naphthalene	mg/kg	--	--	**0.471**	--	--	--	< 0.05 U
Phenanthrene	mg/kg	--	--	**0.674**	--	--	--	**0.1**
Pyrene	mg/kg	--	--	**1.65**	--	--	--	**0.16**
Benz(a)anthracene	mg/kg	--	--	**0.372**	--	--	--	< 0.05 U
Benzo(a)pyrene	mg/kg	--	--	**0.399**	--	--	--	**0.05**
Benzo(b)fluoranthene	mg/kg	--	--	**0.802**	--	--	--	--
Benzo(j)fluoranthene	mg/kg	--	--	**0.312**	--	--	--	--
Benzo(k)fluoranthene	mg/kg	--	--	**0.316**	--	--	--	--
Chrysene	mg/kg	--	--	**1.08**	--	--	--	**0.18**
Dibenzo(a,h)anthracene	mg/kg	--	--	**0.0957**	--	--	--	< 0.05 U
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	**0.344**	--	--	--	< 0.05 U
Total Benzofluoranthenes	mg/kg	--	--	**1.43**	--	--	--	--
Total HPAHs (ND = 1/2 RDL)	mg/kg	--	--	**7.75**	--	--	--	**0.718 A**
Total LPAHs (ND = 1/2 RDL)	mg/kg	--	--	**1.46 J**	--	--	--	**0.2 A**
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	--	--	**0.603**	--	--	--	**0.0593 A**
Semivolatile Organic Compounds (SVOCs)								
2,4,5-Trichlorophenol	mg/kg	--	--	< 0.999 U	--	--	--	--
2,4,6-Trichlorophenol	mg/kg	--	--	< 0.999 U	--	--	--	--
2,4-Dichlorophenol	mg/kg	--	--	< 0.999 U	--	--	--	--
2,4-Dimethylphenol	mg/kg	--	--	< 0.999 U	--	--	--	< 2.5 U
2,4-Dinitrophenol	mg/kg	--	--	< 2 UJ	--	--	--	--
2,4-Dinitrotoluene	mg/kg	--	--	< 0.999 U	--	--	--	--
2,6-Dinitrotoluene	mg/kg	--	--	< 0.999 U	--	--	--	--
2-Chloronaphthalene	mg/kg	--	--	< 0.2 U	--	--	--	--
2-Chlorophenol	mg/kg	--	--	< 0.2 U	--	--	--	--
2-Methylphenol	mg/kg	--	--	< 0.2 U	--	--	--	--
2-Nitroaniline	mg/kg	--	--	< 0.999 U	--	--	--	--
2-Nitrophenol	mg/kg	--	--	< 0.2 U	--	--	--	--
3 & 4 Methylphenol	mg/kg	--	--	--	--	--	--	< 5 U
3,3'-Dichlorobenzidine	mg/kg	--	--	< 0.999 U	--	--	--	--
3-Nitroaniline	mg/kg	--	--	< 0.999 U	--	--	--	--
4,6-Dinitro-2-methylphenol	mg/kg	--	--	< 2 UJ	--	--	--	--
4-Bromophenyl phenyl ether	mg/kg	--	--	< 0.2 U	--	--	--	--
4-Chloro-3-methylphenol	mg/kg	--	--	< 0.999 U	--	--	--	--
4-Chloroaniline	mg/kg	--	--	< 0.999 U	--	--	--	--
4-Chlorophenyl phenyl ether	mg/kg	--	--	< 0.2 UJ	--	--	--	--
4-Methylphenol	mg/kg	--	--	**12.4**	--	--	--	--
4-Nitroaniline	mg/kg	--	--	< 0.999 U	--	--	--	--
4-Nitrophenol	mg/kg	--	--	< 0.999 UJ	--	--	--	--
Benzoic acid	mg/kg	--	--	**0.68 J**	--	--	--	< 12 U
Benzyl alcohol	mg/kg	--	--	**5.89**	--	--	--	< 2.5 U
Benzyl butyl phthalate	mg/kg	--	--	**0.7 J**	--	--	--	< 2.5 U
Bis(2-chloro-1-methylethyl) ether	mg/kg	--	--	< 0.2 U	--	--	--	--
Bis(2-chloroethoxy)methane	mg/kg	--	--	< 0.2 U	--	--	--	--
Bis(2-chloroethyl) ether	mg/kg	--	--	< 0.2 U	--	--	--	--
Bis(2-ethylhexyl) phthalate	mg/kg	--	--	**89.1**	--	--	--	< 4 U
Carbazole	mg/kg	--	--	**0.162 J**	--	--	--	--
Dibenzofuran	mg/kg	--	--	**0.0476 J**	--	--	--	< 0.25 U
Diethyl phthalate	mg/kg	--	--	< 0.2 U	--	--	--	--
Dimethyl phthalate	mg/kg	--	--	**11.2 J**	--	--	--	< 2.5 U
Di-n-butyl phthalate	mg/kg	--	--	**6.75**	--	--	--	--
Di-n-octyl phthalate	mg/kg	--	--	**2.05**	--	--	--	--
Hexachlorobenzene	mg/kg	--	--	< 0.00199 UJ	--	--	--	< 0.25 U
Hexachlorobutadiene	mg/kg	--	--	< 0.00199 UJ	--	--	--	--
Hexachlorocyclopentadiene	mg/kg	--	--	< 0.999 UJ	--	--	--	--
Hexachloroethane	mg/kg	--	--	< 0.2 U	--	--	--	--
Isophorone	mg/kg	--	--	< 0.2 U	--	--	--	--
Nitrobenzene	mg/kg	--	--	< 0.2 U	--	--	--	--
N-Nitrosodimethylamine	mg/kg	--	--	--	--	--	--	--
N-Nitroso-di-n-propylamine	mg/kg	--	--	< 0.2 U	--	--	--	--
N-Nitrosodiphenylamine	mg/kg	--	--	< 0.2 U	--	--	--	< 0.25 U
Pentachlorophenol	mg/kg	--	--	< 0.999 U	--	--	--	< 1.2 U
Phenol	mg/kg	--	--	**1.62**	--	--	--	< 2.5 U

Table I.3.D. Catch Basin Solids Analytical Results

South Park Marina Site, Seattle, Washington

Location		CB-01	CB-02		CB-03	CB-04	CB-05	
Date		02/11/2016	02/11/2016	04/20/2021	02/11/2016	02/11/2016	02/11/2016	10/07/2022
Sample		SPM-CB-01-02112016	SPM-CB-02-02112016	CB-02-210420	SPM-CB-03-02112016	SPM-CB-04-02112016	SPM-CB-05-02112016	CB-05-221007
Analyte	**Unit**							
Pesticides								
2,4'-DDD	mg/kg	--	--	< 0.00398 UJ	--	--	--	--
2,4'-DDE	mg/kg	--	--	< 0.00398 UJ	--	--	--	--
2,4'-DDT	mg/kg	--	--	< 0.00398 UJ	--	--	--	--
4,4'-DDD	mg/kg	--	--	< 0.00398 UJ	--	--	--	--
4,4'-DDE	mg/kg	--	--	< 0.00398 UJ	--	--	--	--
4,4'-DDT	mg/kg	--	--	< 0.00398 UJ	--	--	--	--
Aldrin	mg/kg	--	--	< 0.00199 UJ	--	--	--	--
Alpha-BHC	mg/kg	--	--	< 0.00199 UJ	--	--	--	--
Beta-BHC	mg/kg	--	--	< 0.00199 UJ	--	--	--	--
cis-Chlordane	mg/kg	--	--	< 0.00199 UJ	--	--	--	--
cis-Nonachlor	mg/kg	--	--	< 0.00398 UJ	--	--	--	--
Delta-BHC	mg/kg	--	--	< 0.00199 UJ	--	--	--	--
Dieldrin	mg/kg	--	--	< 0.00398 UJ	--	--	--	--
Endosulfan I	mg/kg	--	--	< 0.00199 UJ	--	--	--	--
Endosulfan II	mg/kg	--	--	< 0.00398 UJ	--	--	--	--
Endosulfan Sulfate	mg/kg	--	--	< 0.00398 UJ	--	--	--	--
Endrin	mg/kg	--	--	< 0.00398 UJ	--	--	--	--
Endrin Aldehyde	mg/kg	--	--	< 0.00398 UJ	--	--	--	--
Endrin ketone	mg/kg	--	--	< 0.00398 UJ	--	--	--	--
Heptachlor	mg/kg	--	--	< 0.00199 UJ	--	--	--	--
Heptachlor Epoxide	mg/kg	--	--	< 0.0159 UJ	--	--	--	--
Lindane	mg/kg	--	--	< 0.00199 UJ	--	--	--	--
Methoxychlor	mg/kg	--	--	< 0.0199 UJ	--	--	--	--
Mirex	mg/kg	--	--	< 0.00398 UJ	--	--	--	--
Oxychlordane	mg/kg	--	--	< 0.00398 UJ	--	--	--	--
trans-Chlordane	mg/kg	--	--	< 0.00199 UJ	--	--	--	--
trans-Nonachlor	mg/kg	--	--	< 0.00398 UJ	--	--	--	--
Total Petroleum Hydrocarbons (TPH)								
Gasoline Range Organics	mg/kg	--	--	**72.2**	--	--	--	--
Diesel Range Organics	mg/kg	--	--	**2240 J**	--	--	--	--
Motor Oil Range Organics	mg/kg	--	--	**10700 J**	--	--	--	--
Diesel and Oil Extended Range Organics	mg/kg	--	--	**12900 J**	--	--	--	--
Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)								
Benzene	mg/kg	--	--	**0.0218**	--	--	--	--
Toluene	mg/kg	--	--	**3.97**	--	--	--	--
Ethylbenzene	mg/kg	--	--	**0.0873**	--	--	--	--
Total Xylenes	mg/kg	--	--	**0.342**	--	--	--	--
Volatile Organic Compounds (VOCs)								
1,1,1,2-Tetrachloroethane	mg/kg	--	--	< 0.00395 U	--	--	--	--
1,1,1-Trichloroethane	mg/kg	--	--	< 0.00395 U	--	--	--	--
1,1,2 - Trichlorotrifluoroethane	mg/kg	--	--	< 0.00791 U	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	< 0.00395 U	--	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	< 0.00395 U	--	--	--	--
1,1-Dichloroethane	mg/kg	--	--	< 0.00395 U	--	--	--	--
1,1-Dichloroethene	mg/kg	--	--	< 0.00395 U	--	--	--	--
1,1-Dichloropropene	mg/kg	--	--	< 0.00395 U	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	--	--	< 0.0198 U	--	--	--	--
1,2,3-Trichloropropane	mg/kg	--	--	< 0.00791 U	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	< 0.0198 U	--	--	--	< 0.25 U
1,2,4-Trimethylbenzene	mg/kg	--	--	**0.18**	--	--	--	--
1,2-Dibromo-3-chloropropane	mg/kg	--	--	< 0.0198 U	--	--	--	--
1,2-Dibromoethane (EDB)	mg/kg	--	--	< 0.00395 U	--	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	< 0.00395 U	--	--	--	< 0.25 U
1,2-Dichloroethane (EDC)	mg/kg	--	--	< 0.00395 U	--	--	--	--
1,2-Dichloropropane	mg/kg	--	--	< 0.00395 U	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	--	--	**0.0539**	--	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	< 0.00395 U	--	--	--	--
1,3-Dichloropropane	mg/kg	--	--	< 0.00395 U	--	--	--	--
1,4-Dichloro-2-Butene	mg/kg	--	--	< 0.0198 U	--	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	< 0.00395 UJ	--	--	--	< 0.25 U
1-Chloropropane	mg/kg	--	--	--	--	--	--	--
2,2-Dichloropropane	mg/kg	--	--	< 0.00395 U	--	--	--	--
2-Butanone	mg/kg	--	--	**0.156**	--	--	--	--
2-Chloroethyl Vinyl Ether	mg/kg	--	--	< 0.0198 U	--	--	--	--
2-Chlorotoluene	mg/kg	--	--	< 0.00395 U	--	--	--	--
2-Hexanone	mg/kg	--	--	< 0.0198 U	--	--	--	--
2-Pentanone	mg/kg	--	--	< 0.0198 U	--	--	--	--
4-Chlorotoluene	mg/kg	--	--	< 0.00395 U	--	--	--	--
4-Methyl-2-pentanone	mg/kg	--	--	< 0.0198 U	--	--	--	--
Acetone	mg/kg	--	--	**1.99 J**	--	--	--	--
Acrolein	mg/kg	--	--	< 0.0198 U	--	--	--	--
Acrylonitrile	mg/kg	--	--	< 0.0198 U	--	--	--	--
Bromobenzene	mg/kg	--	--	< 0.00395 U	--	--	--	--
Bromochloromethane	mg/kg	--	--	< 0.00395 U	--	--	--	--
Bromodichloromethane	mg/kg	--	--	< 0.00395 U	--	--	--	--
Bromoform	mg/kg	--	--	< 0.00395 U	--	--	--	--
Bromomethane	mg/kg	--	--	**0.00454**	--	--	--	--
Carbon Disulfide	mg/kg	--	--	**0.0382 J**	--	--	--	--
Carbon Tetrachloride	mg/kg	--	--	< 0.00395 U	--	--	--	--
Chlorobenzene	mg/kg	--	--	< 0.00395 U	--	--	--	--
Chloroethane	mg/kg	--	--	< 0.00791 U	--	--	--	--
Chloroform	mg/kg	--	--	< 0.00395 U	--	--	--	--
Chloromethane	mg/kg	--	--	< 0.00395 U	--	--	--	--
cis-1,2-Dichloroethene (DCE)	mg/kg	--	--	< 0.00395 U	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	< 0.00395 U	--	--	--	--
Dibromochloromethane	mg/kg	--	--	< 0.00395 U	--	--	--	--
Dibromomethane	mg/kg	--	--	< 0.00395 U	--	--	--	--
Dichlorodifluoromethane	mg/kg	--	--	< 0.00395 U	--	--	--	--
Isopropylbenzene	mg/kg	--	--	**0.00881**	--	--	--	--
m,p-Xylenes	mg/kg	--	--	**0.224**	--	--	--	--
Methyl tert-butyl ether (MTBE)	mg/kg	--	--	< 0.00395 U	--	--	--	--
Methylene Chloride	mg/kg	--	--	< 0.0198 U	--	--	--	--
Methyliodide	mg/kg	--	--	< 0.00395 U	--	--	--	--
n-Butylbenzene	mg/kg	--	--	**0.00361 J**	--	--	--	--
n-Propylbenzene	mg/kg	--	--	**0.0201**	--	--	--	--
o-Xylene	mg/kg	--	--	**0.118**	--	--	--	--
p-Isopropyltoluene	mg/kg	--	--	**0.0147 J**	--	--	--	--
sec-Butylbenzene	mg/kg	--	--	**0.00315 J**	--	--	--	--
Styrene	mg/kg	--	--	**0.00708**	--	--	--	--
tert-Butylbenzene	mg/kg	--	--	< 0.00395 U	--	--	--	--
Tetrachloroethene (PCE)	mg/kg	--	--	**0.0334 J**	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	--	< 0.00395 U	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	--	< 0.00395 U	--	--	--	--
Trichloroethene (TCE)	mg/kg	--	--	**0.00359 J**	--	--	--	--
Trichlorofluoromethane	mg/kg	--	--	< 0.00791 U	--	--	--	--
Vinyl Acetate	mg/kg	--	--	< 0.0198 U	--	--	--	--
Vinyl Chloride	mg/kg	--	--	< 0.00395 U	--	--	--	--
Conventionals								
Total Organic Carbon	%	**7**	**7.735**	**18.1**	**5.84**	**12.1**	**11.9**	--
Total Solids	%	--	--	**28.14**	--	--	--	--

Table I.3.D. Catch Basin Solids Analytical Results

South Park Marina Site, Seattle, Washington

Location		CB-06			CB-07	CB-08	CB-09	
Date		02/09/2016	04/20/2021	10/07/2022	02/11/2016	02/11/2016	10/08/2014	02/11/2016
Sample		SPM-CB-06-02092016	CB-06-210420	CB-06-221007	SPM-CB-07-02112016	SPM-CB-08-02112016	SP-CB-09	SPM-CB-09-02112016
Analyte	**Unit**							
Metals, Total								
Antimony	mg/kg	--	--	--	--	--	**20**	--
Arsenic	mg/kg	--	**13.9**	**5.36**	--	--	**22**	--
Barium	mg/kg	--	--	--	--	--	--	--
Beryllium	mg/kg	--	--	--	--	--	**0.23 J**	--
Cadmium	mg/kg	--	**1.19**	**0.942**	--	--	**6.5**	--
Chromium	mg/kg	--	**26.3**	**16.9**	--	--	**160**	--
Copper	mg/kg	--	**771**	**750**	--	--	**1800**	--
Lead	mg/kg	--	**64.5**	**141**	--	--	**430**	--
Mercury	mg/kg	--	**0.06 J**	**0.11**	--	--	**0.19**	--
Nickel	mg/kg	--	**27.3**	**12.6**	--	--	**180**	--
Selenium	mg/kg	--	--	--	--	--	**1.2**	--
Silver	mg/kg	--	--	--	--	--	**2.1**	--
Thallium	mg/kg	--	--	--	--	--	**0.3 J**	--
Zinc	mg/kg	--	**303**	**224**	--	--	**5600**	--
Butyl Tins								
Dibutyltin Ion	mg/kg	--	**0.0447 J**	--	--	--	--	--
Monobutyltin	mg/kg	--	**0.0499 J**	--	--	--	--	--
Tetrabutyltin	mg/kg	--	< 0.00499 UJ	--	--	--	--	--
Tributyltin Ion	mg/kg	--	**0.0715 J**	--	--	--	--	--
Polychlorinated Biphenyl (PCBs) Aroclors								
Total PCB Aroclors (ND = 0)	mg/kg	< 10 U	**0.212 J**	--	**0.34 J**	**0.48 J**	**0.54 A**	**1.5**
Polychlorinated Biphenyl (PCBs) Congeners								
Total PCB Congeners (ND = 0)	mg/kg	**1.19 J**	--	--	**0.289 J**	**0.138 J**	**0.896 J**	**0.735 J**
Total PCB TEQ (ND = 0)	mg/kg	**9.14E-05**	--	--	**1.94E-05 J**	**7.39E-06 J**	**8.61E-07**	**2.77E-05 J**
Dioxins/Furans								
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	--	--	--	--	--	**5.91E-05 J**	--
Polycyclic Aromatic Hydrocarbons (PAHs)								
1-Methylnaphthalene	mg/kg	--	**0.0369 J**	--	--	--	**3.1**	--
2-Methylnaphthalene	mg/kg	--	**0.0716**	< 0.04 U	--	--	**4.6**	--
Acenaphthene	mg/kg	--	**0.0359 J**	< 0.04 U	--	--	**0.17 J**	--
Acenaphthylene	mg/kg	--	**0.0195 J**	--	--	--	< 0.088 U	--
Anthracene	mg/kg	--	**0.0503**	< 0.04 U	--	--	**0.19 J**	--
Benzo(g,h,i)perylene	mg/kg	--	**0.386**	**0.14**	--	--	**0.36**	--
Fluoranthene	mg/kg	--	**1**	**0.55**	--	--	**1.6 J**	--
Fluorene	mg/kg	--	**0.112**	< 0.04 U	--	--	**0.51**	--
Naphthalene	mg/kg	--	**0.00974 J**	< 0.04 U	--	--	**2.2**	--
Phenanthrene	mg/kg	--	**0.651**	**0.16**	--	--	**0.88 J**	--
Pyrene	mg/kg	--	**0.77**	**0.46**	--	--	**2.2 J**	--
Benz(a)anthracene	mg/kg	--	**0.207**	**0.16**	--	--	**0.27 J**	--
Benzo(a)pyrene	mg/kg	--	**0.208**	**0.23**	--	--	**0.37 J**	--
Benzo(b)fluoranthene	mg/kg	--	**0.442**	--	--	--	--	--
Benzo(j)fluoranthene	mg/kg	--	**0.123**	--	--	--	--	--
Benzo(k)fluoranthene	mg/kg	--	**0.122**	--	--	--	--	--
Chrysene	mg/kg	--	**0.74**	**0.35**	--	--	**0.96 J**	--
Dibenzo(a,h)anthracene	mg/kg	--	**0.0509**	< 0.04 U	--	--	< 0.18 U	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	**0.184**	**0.16**	--	--	**0.25**	--
Total Benzofluoranthenes	mg/kg	--	**0.69**	--	--	--	**1 J**	--
Total HPAHs (ND = 1/2 RDL)	mg/kg	--	**4.23**	**2.07 A**	--	--	**7.1 J**	--
Total LPAHs (ND = 1/2 RDL)	mg/kg	--	**0.879 J**	**0.24 A**	--	--	**3.99 J**	--
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	--	**0.316**	**0.268 A**	--	--	**0.541 J**	--
Semivolatile Organic Compounds (SVOCs)								
2,4,5-Trichlorophenol	mg/kg	--	< 0.997 U	--	--	--	< 0.44 U	--
2,4,6-Trichlorophenol	mg/kg	--	< 0.997 U	--	--	--	< 0.66 U	--
2,4-Dichlorophenol	mg/kg	--	< 0.997 U	--	--	--	< 0.44 U	--
2,4-Dimethylphenol	mg/kg	--	< 0.997 U	< 2 U	--	--	< 0.44 U	--
2,4-Dinitrophenol	mg/kg	--	< 1.99 UJ	--	--	--	< 4.4 U	--
2,4-Dinitrotoluene	mg/kg	--	< 0.997 U	--	--	--	< 0.44 U	--
2,6-Dinitrotoluene	mg/kg	--	< 0.997 U	--	--	--	< 0.44 U	--
2-Chloronaphthalene	mg/kg	--	< 0.199 U	--	--	--	< 0.088 UJ	--
2-Chlorophenol	mg/kg	--	< 0.199 U	--	--	--	< 0.44 UJ	--
2-Methylphenol	mg/kg	--	< 0.199 U	--	--	--	< 0.44 UJ	--
2-Nitroaniline	mg/kg	--	< 0.997 U	--	--	--	< 0.44 U	--
2-Nitrophenol	mg/kg	--	< 0.199 U	--	--	--	< 0.44 U	--
3 & 4 Methylphenol	mg/kg	--	--	< 4 U	--	--	--	--
3,3'-Dichlorobenzidine	mg/kg	--	< 0.997 U	--	--	--	< 0.88 U	--
3-Nitroaniline	mg/kg	--	< 0.997 U	--	--	--	< 0.44 U	--
4,6-Dinitro-2-methylphenol	mg/kg	--	< 1.99 UJ	--	--	--	< 4.4 U	--
4-Bromophenyl phenyl ether	mg/kg	--	< 0.199 U	--	--	--	< 0.44 U	--
4-Chloro-3-methylphenol	mg/kg	--	< 0.997 U	--	--	--	< 0.44 U	--
4-Chloroaniline	mg/kg	--	< 0.997 U	--	--	--	< 0.44 U	--
4-Chlorophenyl phenyl ether	mg/kg	--	< 0.199 UJ	--	--	--	< 0.44 UJ	--
4-Methylphenol	mg/kg	--	**1.44**	--	--	--	**0.33 J**	--
4-Nitroaniline	mg/kg	--	< 0.997 U	--	--	--	< 0.44 U	--
4-Nitrophenol	mg/kg	--	< 0.997 UJ	--	--	--	< 4.4 U	--
Benzoic acid	mg/kg	--	< 1.99 UJ	< 10 U	--	--	< 11 U	--
Benzyl alcohol	mg/kg	--	**0.38**	< 2 U	--	--	**3.6 J**	--
Benzyl butyl phthalate	mg/kg	--	**2.99 J**	< 2 U	--	--	**1.8**	--
Bis(2-chloro-1-methylethyl) ether	mg/kg	--	< 0.199 U	--	--	--	--	--
Bis(2-chloroethoxy)methane	mg/kg	--	< 0.199 U	--	--	--	< 0.44 UJ	--
Bis(2-chloroethyl) ether	mg/kg	--	< 0.199 U	--	--	--	< 0.44 UJ	--
Bis(2-ethylhexyl) phthalate	mg/kg	--	**33.2**	< 3.2 U	--	--	**37**	--
Carbazole	mg/kg	--	**0.135 J**	--	--	--	< 0.44 UJ	--
Dibenzofuran	mg/kg	--	**0.054**	< 0.2 U	--	--	< 0.44 UJ	--
Diethyl phthalate	mg/kg	--	< 0.199 U	--	--	--	< 0.88 U	--
Dimethyl phthalate	mg/kg	--	**1.42**	< 2 U	--	--	**3.9 J**	--
Di-n-butyl phthalate	mg/kg	--	**0.52**	--	--	--	**3.7**	--
Di-n-octyl phthalate	mg/kg	--	**1.82**	--	--	--	**1.2 J**	--
Hexachlorobenzene	mg/kg	--	< 0.00197 U	< 0.2 U	--	--	< 0.22 U	--
Hexachlorobutadiene	mg/kg	--	< 0.00197 U	--	--	--	< 0.22 U	--
Hexachlorocyclopentadiene	mg/kg	--	< 0.997 UJ	--	--	--	< 0.44 U	--
Hexachloroethane	mg/kg	--	< 0.199 U	--	--	--	< 0.44 UJ	--
Isophorone	mg/kg	--	< 0.199 U	--	--	--	< 0.44 U	--
Nitrobenzene	mg/kg	--	< 0.199 U	--	--	--	< 0.44 U	--
N-Nitrosodimethylamine	mg/kg	--	--	--	--	--	< 4.4 U	--
N-Nitroso-di-n-propylamine	mg/kg	--	< 0.199 U	--	--	--	< 0.44 U	--
N-Nitrosodiphenylamine	mg/kg	--	< 0.199 U	< 0.2 U	--	--	< 0.22 UJ	--
Pentachlorophenol	mg/kg	--	**0.341 J**	< 1 U	--	--	< 0.88 U	--
Phenol	mg/kg	--	**0.198 J**	< 2 U	--	--	**0.37 J**	--

Table I.3.D. Catch Basin Solids Analytical Results

South Park Marina Site, Seattle, Washington

Location		CB-06			CB-07	CB-08	CB-09	
Date		02/09/2016	04/20/2021	10/07/2022	02/11/2016	02/11/2016	10/08/2014	02/11/2016
Sample		SPM-CB-06-02092016	CB-06-210420	CB-06-221007	SPM-CB-07-02112016	SPM-CB-08-02112016	SP-CB-09	SPM-CB-09-02112016
Analyte	**Unit**							
Pesticides								
2,4'-DDD	mg/kg	--	< 0.00393 U	--	--	--	--	--
2,4'-DDE	mg/kg	--	< 0.00393 U	--	--	--	--	--
2,4'-DDT	mg/kg	--	< 0.00393 U	--	--	--	--	--
4,4'-DDD	mg/kg	--	< 0.00393 U	--	--	--	--	--
4,4'-DDE	mg/kg	--	< 0.00393 U	--	--	--	--	--
4,4'-DDT	mg/kg	--	< 0.0197 U	--	--	--	--	--
Aldrin	mg/kg	--	< 0.00197 U	--	--	--	--	--
Alpha-BHC	mg/kg	--	< 0.00197 U	--	--	--	--	--
Beta-BHC	mg/kg	--	< 0.00197 U	--	--	--	--	--
cis-Chlordane	mg/kg	--	< 0.00197 U	--	--	--	--	--
cis-Nonachlor	mg/kg	--	< 0.00393 U	--	--	--	--	--
Delta-BHC	mg/kg	--	< 0.00197 U	--	--	--	--	--
Dieldrin	mg/kg	--	< 0.00393 U	--	--	--	--	--
Endosulfan I	mg/kg	--	< 0.00197 U	--	--	--	--	--
Endosulfan II	mg/kg	--	< 0.00393 U	--	--	--	--	--
Endosulfan Sulfate	mg/kg	--	< 0.00393 U	--	--	--	--	--
Endrin	mg/kg	--	< 0.00393 U	--	--	--	--	--
Endrin Aldehyde	mg/kg	--	< 0.00393 U	--	--	--	--	--
Endrin ketone	mg/kg	--	< 0.00393 U	--	--	--	--	--
Heptachlor	mg/kg	--	< 0.00197 U	--	--	--	--	--
Heptachlor Epoxide	mg/kg	--	< 0.00197 U	--	--	--	--	--
Lindane	mg/kg	--	< 0.00197 U	--	--	--	--	--
Methoxychlor	mg/kg	--	< 0.0197 U	--	--	--	--	--
Mirex	mg/kg	--	< 0.00393 U	--	--	--	--	--
Oxychlordane	mg/kg	--	< 0.00393 U	--	--	--	--	--
trans-Chlordane	mg/kg	--	< 0.00197 U	--	--	--	--	--
trans-Nonachlor	mg/kg	--	< 0.00393 U	--	--	--	--	--
Total Petroleum Hydrocarbons (TPH)								
Gasoline Range Organics	mg/kg	--	**88.5**	--	--	--	**480**	--
Diesel Range Organics	mg/kg	--	**2710 J**	--	--	--	**5300**	--
Motor Oil Range Organics	mg/kg	--	**12800 J**	--	--	--	**14000**	--
Diesel and Oil Extended Range Organics	mg/kg	--	**15500 J**	--	--	--	**19300**	--
Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)								
Benzene	mg/kg	--	**0.00235 J**	--	--	--	< 0.089 U	--
Toluene	mg/kg	--	**10.9**	--	--	--	**0.38**	--
Ethylbenzene	mg/kg	--	**0.0159**	--	--	--	**0.24**	--
Total Xylenes	mg/kg	--	**0.0298**	--	--	--	**0.66**	--
Volatile Organic Compounds (VOCs)								
1,1,1,2-Tetrachloroethane	mg/kg	--	< 0.00241 U	--	--	--	< 0.22 U	--
1,1,1-Trichloroethane	mg/kg	--	< 0.00241 U	--	--	--	< 0.22 U	--
1,1,2 - Trichlorotrifluoroethane	mg/kg	--	< 0.00481 U	--	--	--	< 0.22 U	--
1,1,2,2-Tetrachloroethane	mg/kg	--	< 0.00241 U	--	--	--	< 0.056 U	--
1,1,2-Trichloroethane	mg/kg	--	< 0.00241 U	--	--	--	< 0.067 U	--
1,1-Dichloroethane	mg/kg	--	< 0.00241 U	--	--	--	< 0.22 U	--
1,1-Dichloroethene	mg/kg	--	< 0.00241 U	--	--	--	< 0.11 U	--
1,1-Dichloropropene	mg/kg	--	< 0.00241 U	--	--	--	< 0.22 U	--
1,2,3-Trichlorobenzene	mg/kg	--	< 0.012 U	--	--	--	< 0.22 U	--
1,2,3-Trichloropropane	mg/kg	--	< 0.00481 U	--	--	--	< 0.22 U	--
1,2,4-Trichlorobenzene	mg/kg	--	< 0.012 U	< 0.2 U	--	--	< 0.22 UJ	--
1,2,4-Trimethylbenzene	mg/kg	--	**0.0256**	--	--	--	**3.3**	--
1,2-Dibromo-3-chloropropane	mg/kg	--	< 0.012 U	--	--	--	< 1.1 U	--
1,2-Dibromoethane (EDB)	mg/kg	--	< 0.00241 U	--	--	--	< 0.089 U	--
1,2-Dichlorobenzene	mg/kg	--	< 0.00241 U	< 0.2 U	--	--	< 0.24 UJ	--
1,2-Dichloroethane (EDC)	mg/kg	--	< 0.00241 U	--	--	--	< 0.089 U	--
1,2-Dichloropropane	mg/kg	--	< 0.00241 U	--	--	--	< 0.067 U	--
1,3,5-Trimethylbenzene	mg/kg	--	**0.00638**	--	--	--	**0.61**	--
1,3-Dichlorobenzene	mg/kg	--	< 0.00241 U	--	--	--	< 0.22 UJ	--
1,3-Dichloropropane	mg/kg	--	< 0.00241 U	--	--	--	< 0.22 U	--
1,4-Dichloro-2-Butene	mg/kg	--	< 0.012 U	--	--	--	< 1.1 U	--
1,4-Dichlorobenzene	mg/kg	--	< 0.00241 UJ	< 0.2 U	--	--	< 0.22 UJ	--
1-Chloropropane	mg/kg	--	--	--	--	--	< 1.1 U	--
2,2-Dichloropropane	mg/kg	--	< 0.00241 U	--	--	--	< 0.22 U	--
2-Butanone	mg/kg	--	**0.145**	--	--	--	< 2.2 U	--
2-Chloroethyl Vinyl Ether	mg/kg	--	< 0.012 U	--	--	--	< 1.1 U	--
2-Chlorotoluene	mg/kg	--	< 0.00241 U	--	--	--	< 0.22 U	--
2-Hexanone	mg/kg	--	< 0.012 U	--	--	--	< 1.1 U	--
2-Pentanone	mg/kg	--	< 0.012 U	--	--	--	--	--
4-Chlorotoluene	mg/kg	--	< 0.00241 U	--	--	--	< 0.22 U	--
4-Methyl-2-pentanone	mg/kg	--	< 0.012 U	--	--	--	< 1.1 U	--
Acetone	mg/kg	--	**0.72**	--	--	--	< 2.2 U	--
Acrolein	mg/kg	--	< 0.012 U	--	--	--	< 6.7 U	--
Acrylonitrile	mg/kg	--	< 0.012 U	--	--	--	< 1.1 U	--
Bromobenzene	mg/kg	--	< 0.00241 U	--	--	--	< 0.22 U	--
Bromochloromethane	mg/kg	--	< 0.00241 U	--	--	--	< 0.22 U	--
Bromodichloromethane	mg/kg	--	< 0.00241 U	--	--	--	< 0.22 U	--
Bromoform	mg/kg	--	< 0.00241 U	--	--	--	< 0.22 U	--
Bromomethane	mg/kg	--	**0.0012 J**	--	--	--	< 0.78 U	--
Carbon Disulfide	mg/kg	--	**0.00873**	--	--	--	< 0.22 U	--
Carbon Tetrachloride	mg/kg	--	< 0.00241 U	--	--	--	< 0.11 U	--
Chlorobenzene	mg/kg	--	< 0.00241 U	--	--	--	< 0.22 U	--
Chloroethane	mg/kg	--	< 0.00481 U	--	--	--	< 2.2 U	--
Chloroform	mg/kg	--	< 0.00241 U	--	--	--	< 0.22 U	--
Chloromethane	mg/kg	--	< 0.00241 U	--	--	--	< 0.56 U	--
cis-1,2-Dichloroethene (DCE)	mg/kg	--	**0.00224 J**	--	--	--	< 0.22 U	--
cis-1,3-Dichloropropene	mg/kg	--	< 0.00241 U	--	--	--	< 0.089 U	--
Dibromochloromethane	mg/kg	--	< 0.00241 U	--	--	--	< 0.22 U	--
Dibromomethane	mg/kg	--	< 0.00241 U	--	--	--	< 0.22 U	--
Dichlorodifluoromethane	mg/kg	--	< 0.00241 U	--	--	--	< 0.22 U	--
Isopropylbenzene	mg/kg	--	**0.00226 J**	--	--	--	**0.05 J**	--
m,p-Xylenes	mg/kg	--	**0.0191**	--	--	--	**0.43**	--
Methyl tert-butyl ether (MTBE)	mg/kg	--	< 0.00241 U	--	--	--	< 0.22 U	--
Methylene Chloride	mg/kg	--	< 0.012 U	--	--	--	< 0.14 U	--
Methyliodide	mg/kg	--	< 0.00241 U	--	--	--	< 1.1 U	--
n-Butylbenzene	mg/kg	--	< 0.00241 UJ	--	--	--	**1.8**	--
n-Propylbenzene	mg/kg	--	< 0.00241 U	--	--	--	**0.18 J**	--
o-Xylene	mg/kg	--	**0.0107**	--	--	--	**0.23**	--
p-Isopropyltoluene	mg/kg	--	**0.253**	--	--	--	**0.29**	--
sec-Butylbenzene	mg/kg	--	< 0.00241 U	--	--	--	**0.16 J**	--
Styrene	mg/kg	--	< 0.00241 U	--	--	--	**0.22**	--
tert-Butylbenzene	mg/kg	--	< 0.00241 U	--	--	--	< 0.22 U	--
Tetrachloroethene (PCE)	mg/kg	--	**0.00087 J**	--	--	--	< 0.11 U	--
trans-1,2-Dichloroethene	mg/kg	--	< 0.00241 U	--	--	--	< 0.22 U	--
trans-1,3-Dichloropropene	mg/kg	--	< 0.00241 U	--	--	--	< 0.089 U	--
Trichloroethene (TCE)	mg/kg	--	< 0.00241 U	--	--	--	< 0.089 U	--
Trichlorofluoromethane	mg/kg	--	< 0.00481 U	--	--	--	< 0.22 U	--
Vinyl Acetate	mg/kg	--	< 0.012 U	--	--	--	< 1.1 U	--
Vinyl Chloride	mg/kg	--	< 0.00241 U	--	--	--	< 0.089 U	--
Conventionals								
Total Organic Carbon	%	**8.54**	**11.5**	--	**11**	**4.11**	**11**	**5.85**
Total Solids	%	--	**35.23**	--	--	--	**44.7**	--

Table I.3.D. Catch Basin Solids Analytical Results

South Park Marina Site, Seattle, Washington

Location		SWRX-PRE			
Date		10/08/2014	04/20/2021	10/04/2021	10/07/2022
Sample		SP-OWS-01 (SOLID)	PRERX-210420	SPM 20211004 SWRX-M-TIG	CB-PRERX-221007
Analyte	**Unit**				
Metals, Total					
Antimony	mg/kg	**16**	--	--	--
Arsenic	mg/kg	**69**	**6.63**	**1.3**	**13.4**
Barium	mg/kg	--	--	**10 J**	--
Beryllium	mg/kg	**0.21 J**	--	--	--
Cadmium	mg/kg	**16**	**0.96**	**0.066**	**1.42**
Chromium	mg/kg	**330**	**24.9**	**4.4 J**	**94.6**
Copper	mg/kg	**14000**	**1370**	**74**	**2300**
Lead	mg/kg	**940**	**91.3**	**6.7**	**111**
Mercury	mg/kg	**1.7**	**0.199 J**	**0.012**	**0.17**
Nickel	mg/kg	**230**	**17.2**	**7.6**	**62.7**
Selenium	mg/kg	**1.6**	--	< 0.13 U	--
Silver	mg/kg	**1.2**	--	< 0.13 U	--
Thallium	mg/kg	< 1.1 U	--	--	--
Zinc	mg/kg	**2900**	**383**	**20**	**452**
Butyl Tins					
Dibutyltin Ion	mg/kg	--	**0.742 J**	--	--
Monobutyltin	mg/kg	--	**0.404 J**	--	--
Tetrabutyltin	mg/kg	--	**0.0212 J**	--	--
Tributyltin Ion	mg/kg	--	**2.06 J**	--	--
Polychlorinated Biphenyl (PCBs) Aroclors					
Total PCB Aroclors (ND = 0)	mg/kg	**4.11 JA**	**0.327**	--	--
Polychlorinated Biphenyl (PCBs) Congeners					
Total PCB Congeners (ND = 0)	mg/kg	**3.96 J**	--	--	--
Total PCB TEQ (ND = 0)	mg/kg	**2.24E-04**	--	--	--
Dioxins/Furans					
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	**8.86E-04 J**	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)					
1-Methylnaphthalene	mg/kg	**2.8**	**0.0201 J**	--	--
2-Methylnaphthalene	mg/kg	**4.7**	**0.0273 J**	--	< 0.04 U
Acenaphthene	mg/kg	< 0.057 U	**0.00995 J**	--	< 0.04 U
Acenaphthylene	mg/kg	< 0.057 U	< 0.0498 U	--	--
Anthracene	mg/kg	**0.8**	**0.0244 J**	--	< 0.04 U
Benzo(g,h,i)perylene	mg/kg	**1.4**	**0.192**	--	**0.14**
Fluoranthene	mg/kg	**12**	**0.53**	--	**0.58**
Fluorene	mg/kg	**0.95**	**0.0475 J**	--	< 0.04 U
Naphthalene	mg/kg	**2**	**0.00342 J**	--	< 0.04 U
Phenanthrene	mg/kg	**6.3**	**0.208**	--	**0.17**
Pyrene	mg/kg	**11**	**0.463**	--	**0.49**
Benz(a)anthracene	mg/kg	**3.4**	**0.164**	--	**0.16**
Benzo(a)pyrene	mg/kg	**3.8**	**0.201**	--	**0.24**
Benzo(b)fluoranthene	mg/kg	--	**0.284**	--	--
Benzo(j)fluoranthene	mg/kg	--	**0.133**	--	--
Benzo(k)fluoranthene	mg/kg	--	**0.132**	--	--
Chrysene	mg/kg	**5.9**	**0.31**	--	**0.36**
Dibenzo(a,h)anthracene	mg/kg	**0.44**	**0.042 J**	--	< 0.04 U
Indeno(1,2,3-cd)pyrene	mg/kg	**1.8**	**0.166**	--	**0.16**
Total Benzofluoranthenes	mg/kg	**11**	**0.54**	--	--
Total HPAHs (ND = 1/2 RDL)	mg/kg	**50.7**	**2.62 J**	--	**2.15 A**
Total LPAHs (ND = 1/2 RDL)	mg/kg	**10.1**	**0.318 J**	--	**0.25 A**
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	**5.52**	**0.283 J**	--	**0.278 A**
Semivolatile Organic Compounds (SVOCs)					
2,4,5-Trichlorophenol	mg/kg	< 0.29 U	< 0.998 U	--	--
2,4,6-Trichlorophenol	mg/kg	< 0.43 U	< 0.998 U	--	--
2,4-Dichlorophenol	mg/kg	< 0.29 U	< 0.998 U	--	--
2,4-Dimethylphenol	mg/kg	< 0.29 U	< 0.998 U	--	< 2 U
2,4-Dinitrophenol	mg/kg	< 2.9 U	< 2 UJ	--	--
2,4-Dinitrotoluene	mg/kg	< 0.29 U	< 0.998 U	--	--
2,6-Dinitrotoluene	mg/kg	< 0.29 U	< 0.998 U	--	--
2-Chloronaphthalene	mg/kg	< 0.057 U	< 0.2 U	--	--
2-Chlorophenol	mg/kg	< 0.29 U	< 0.2 U	--	--
2-Methylphenol	mg/kg	< 0.29 U	< 0.2 U	--	--
2-Nitroaniline	mg/kg	< 0.29 U	< 0.998 U	--	--
2-Nitrophenol	mg/kg	< 0.29 U	< 0.2 U	--	--
3 & 4 Methylphenol	mg/kg	--	--	--	< 4 U
3,3'-Dichlorobenzidine	mg/kg	< 0.57 U	< 0.998 U	--	--
3-Nitroaniline	mg/kg	< 0.29 U	< 0.998 U	--	--
4,6-Dinitro-2-methylphenol	mg/kg	< 2.9 U	< 2 UJ	--	--
4-Bromophenyl phenyl ether	mg/kg	< 0.29 U	< 0.2 U	--	--
4-Chloro-3-methylphenol	mg/kg	**17**	< 0.998 U	--	--
4-Chloroaniline	mg/kg	< 0.29 U	< 0.998 U	--	--
4-Chlorophenyl phenyl ether	mg/kg	< 0.29 U	< 0.2 UJ	--	--
4-Methylphenol	mg/kg	**6.4**	< 0.2 U	--	--
4-Nitroaniline	mg/kg	< 0.29 U	< 0.998 U	--	--
4-Nitrophenol	mg/kg	< 2.9 U	< 0.998 UJ	--	--
Benzoic acid	mg/kg	**9.7**	< 2 UJ	--	< 10 U
Benzyl alcohol	mg/kg	**63**	**3.53**	--	< 2 U
Benzyl butyl phthalate	mg/kg	**4.3**	**0.228 J**	--	< 2 U
Bis(2-chloro-1-methylethyl) ether	mg/kg	--	< 0.2 U	--	--
Bis(2-chloroethoxy)methane	mg/kg	< 0.29 U	< 0.2 U	--	--
Bis(2-chloroethyl) ether	mg/kg	< 0.29 U	< 0.2 U	--	--
Bis(2-ethylhexyl) phthalate	mg/kg	**110**	**8.2 J**	--	< 3.2 U
Carbazole	mg/kg	**0.85**	< 0.2 U	--	--
Dibenzofuran	mg/kg	< 0.29 U	**0.0154 J**	--	< 0.2 U
Diethyl phthalate	mg/kg	< 0.57 U	< 0.2 U	--	--
Dimethyl phthalate	mg/kg	**70**	**2.34**	--	< 2 U
Di-n-butyl phthalate	mg/kg	**6.6**	**0.669**	--	--
Di-n-octyl phthalate	mg/kg	**4.4**	**0.346**	--	--
Hexachlorobenzene	mg/kg	< 0.14 U	< 0.00198 U	--	< 0.2 U
Hexachlorobutadiene	mg/kg	< 0.14 U	< 0.00198 U	< 0.0050 U	--
Hexachlorocyclopentadiene	mg/kg	< 0.29 U	< 0.998 UJ	--	--
Hexachloroethane	mg/kg	< 0.29 U	< 0.2 U	--	--
Isophorone	mg/kg	< 0.29 U	< 0.2 U	--	--
Nitrobenzene	mg/kg	< 0.29 U	< 0.2 U	--	--
N-Nitrosodimethylamine	mg/kg	< 2.9 U	--	--	--
N-Nitroso-di-n-propylamine	mg/kg	< 0.29 U	< 0.2 U	--	--
N-Nitrosodiphenylamine	mg/kg	< 0.14 U	< 0.2 U	--	< 0.2 U
Pentachlorophenol	mg/kg	**1.5**	< 0.998 U	--	< 1 U
Phenol	mg/kg	**2.2**	< 0.2 U	--	< 2 U

Table I.3.D. Catch Basin Solids Analytical Results

South Park Marina Site, Seattle, Washington

	Location	SWRX-PRE			
	Date	10/08/2014	04/20/2021	10/04/2021	10/07/2022
	Sample	SP-OWS-01 (SOLID)	PRERX-210420	SPM 20211004 SWRX-M-TIG	CB-PRERX-221007
Analyte	**Unit**				
Pesticides					
2,4'-DDD	mg/kg	--	< 0.0356 U	--	--
2,4'-DDE	mg/kg	--	< 0.00395 U	--	--
2,4'-DDT	mg/kg	--	< 0.00395 U	--	--
4,4'-DDD	mg/kg	--	< 0.00395 U	--	--
4,4'-DDE	mg/kg	--	< 0.00395 U	--	--
4,4'-DDT	mg/kg	--	< 0.087 U	--	--
Aldrin	mg/kg	--	< 0.00198 U	--	--
Alpha-BHC	mg/kg	--	< 0.00198 U	--	--
Beta-BHC	mg/kg	--	< 0.0356 U	--	--
cis-Chlordane	mg/kg	--	< 0.00198 U	--	--
cis-Nonachlor	mg/kg	--	< 0.087 U	--	--
Delta-BHC	mg/kg	--	< 0.00198 U	--	--
Dieldrin	mg/kg	--	< 0.0435 U	--	--
Endosulfan I	mg/kg	--	< 0.00198 U	--	--
Endosulfan II	mg/kg	--	< 0.00395 U	--	--
Endosulfan Sulfate	mg/kg	--	< 0.00395 U	--	--
Endrin	mg/kg	--	< 0.00395 U	--	--
Endrin Aldehyde	mg/kg	--	< 0.00395 U	--	--
Endrin ketone	mg/kg	--	< 0.00395 U	--	--
Heptachlor	mg/kg	--	< 0.00198 U	--	--
Heptachlor Epoxide	mg/kg	--	< 0.00198 U	--	--
Lindane	mg/kg	--	< 0.00198 U	--	--
Methoxychlor	mg/kg	--	< 0.0198 U	--	--
Mirex	mg/kg	--	< 0.00395 U	--	--
Oxychlordane	mg/kg	--	< 0.00395 U	--	--
trans-Chlordane	mg/kg	--	< 0.00198 U	--	--
trans-Nonachlor	mg/kg	--	< 0.00395 U	--	--
Total Petroleum Hydrocarbons (TPH)					
Gasoline Range Organics	mg/kg	**340**	**16.1**	--	--
Diesel Range Organics	mg/kg	**6600**	**476**	--	--
Motor Oil Range Organics	mg/kg	**16000**	**1220**	--	--
Diesel and Oil Extended Range Organics	mg/kg	**22600**	**1700**	--	--
Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)					
Benzene	mg/kg	< 0.11 U	**0.00112**	--	--
Toluene	mg/kg	**8.8**	**0.0253**	--	--
Ethylbenzene	mg/kg	**12**	**0.00962**	--	--
Total Xylenes	mg/kg	**7.5**	**0.0112**	--	--
Volatile Organic Compounds (VOCs)					
1,1,1,2-Tetrachloroethane	mg/kg	< 0.27 U	< 0.00104 U	< 0.0010 U	--
1,1,1-Trichloroethane	mg/kg	< 0.27 U	**0.00319**	< 0.0010 U	--
1,1,2 - Trichlorotrifluoroethane	mg/kg	< 0.27 U	< 0.00208 U	--	--
1,1,2,2-Tetrachloroethane	mg/kg	< 0.066 U	< 0.00104 U	< 0.0010 U	--
1,1,2-Trichloroethane	mg/kg	< 0.08 U	< 0.00104 U	< 0.0010 U	--
1,1-Dichloroethane	mg/kg	< 0.27 U	< 0.00104 U	< 0.0010 U	--
1,1-Dichloroethene	mg/kg	< 0.13 U	< 0.00104 U	< 0.0010 U	--
1,1-Dichloropropene	mg/kg	< 0.27 U	< 0.00104 U	< 0.0010 U	--
1,2,3-Trichlorobenzene	mg/kg	< 0.27 U	< 0.0052 U	< 0.0010 U	--
1,2,3-Trichloropropane	mg/kg	< 0.27 U	< 0.00208 U	< 0.0010 U	--
1,2,4-Trichlorobenzene	mg/kg	< 0.14 U	< 0.0052 U	< 0.0010 U	< 0.2 U
1,2,4-Trimethylbenzene	mg/kg	**4.6**	**0.0145**	--	--
1,2-Dibromo-3-chloropropane	mg/kg	< 1.3 U	< 0.0052 U	< 0.0050 UJ	--
1,2-Dibromoethane (EDB)	mg/kg	< 0.11 U	< 0.00104 U	< 0.0010 U	--
1,2-Dichlorobenzene	mg/kg	< 0.16 U	< 0.00104 U	< 0.0010 U	< 0.2 U
1,2-Dichloroethane (EDC)	mg/kg	< 0.11 U	< 0.00104 U	< 0.0010 U	--
1,2-Dichloropropane	mg/kg	< 0.08 U	< 0.00104 U	< 0.0010 U	--
1,3,5-Trimethylbenzene	mg/kg	**2**	**0.00642**	--	--
1,3-Dichlorobenzene	mg/kg	< 0.14 U	< 0.00104 U	< 0.0010 U	--
1,3-Dichloropropane	mg/kg	< 0.27 U	< 0.00104 U	< 0.0010 U	--
1,4-Dichloro-2-Butene	mg/kg	< 1.3 U	< 0.0052 U	--	--
1,4-Dichlorobenzene	mg/kg	< 0.14 U	< 0.00104 U	< 0.0010 U	< 0.2 U
1-Chloropropane	mg/kg	< 0.71 U	--	--	--
2,2-Dichloropropane	mg/kg	< 0.27 U	< 0.00104 U	< 0.0010 U	--
2-Butanone	mg/kg	< 2.7 U	**0.0305**	--	--
2-Chloroethyl Vinyl Ether	mg/kg	< 1.3 U	< 0.0052 UJ	< 0.0050 UJ	--
2-Chlorotoluene	mg/kg	**0.067 J**	< 0.00104 U	< 0.0010 U	--
2-Hexanone	mg/kg	< 1.3 U	< 0.0052 U	--	--
2-Pentanone	mg/kg	--	**0.00389 J**	--	--
4-Chlorotoluene	mg/kg	< 0.27 U	< 0.00104 U	< 0.0010 U	--
4-Methyl-2-pentanone	mg/kg	**0.9 J**	**0.00509 J**	--	--
Acetone	mg/kg	< 2.7 U	**0.386**	--	--
Acrolein	mg/kg	< 8 U	< 0.0052 U	--	--
Acrylonitrile	mg/kg	< 1.3 U	< 0.0052 U	--	--
Bromobenzene	mg/kg	< 0.27 U	< 0.00104 U	< 0.0010 U	--
Bromochloromethane	mg/kg	< 0.27 U	< 0.00104 U	< 0.0010 UJ	--
Bromodichloromethane	mg/kg	< 0.27 U	< 0.00104 U	< 0.0010 U	--
Bromoform	mg/kg	< 0.27 U	< 0.00104 U	< 0.0050 UJ	--
Bromomethane	mg/kg	< 0.93 U	< 0.00104 UJ	< 0.0050 UJ	--
Carbon Disulfide	mg/kg	< 0.27 U	**0.00632**	--	--
Carbon Tetrachloride	mg/kg	< 0.13 U	< 0.00104 U	< 0.0010 U	--
Chlorobenzene	mg/kg	< 0.27 U	< 0.00104 U	< 0.0010 U	--
Chloroethane	mg/kg	< 2.7 U	< 0.00208 UJ	< 0.0050 U	--
Chloroform	mg/kg	< 0.27 U	**0.00032 J**	< 0.0010 U	--
Chloromethane	mg/kg	< 0.66 U	< 0.00104 U	< 0.0050 U	--
cis-1,2-Dichloroethene (DCE)	mg/kg	< 0.27 U	< 0.00104 U	< 0.0010 U	--
cis-1,3-Dichloropropene	mg/kg	< 0.11 U	< 0.00104 U	< 0.0010 U	--
Dibromochloromethane	mg/kg	< 0.27 U	< 0.00104 U	< 0.0010 U	--
Dibromomethane	mg/kg	< 0.27 U	< 0.00104 U	< 0.0010 UJ	--
Dichlorodifluoromethane	mg/kg	< 0.27 U	< 0.00104 U	< 0.0010 U	--
Isopropylbenzene	mg/kg	**0.83**	**0.00125**	--	--
m,p-Xylenes	mg/kg	**5.2**	**0.00608**	--	--
Methyl tert-butyl ether (MTBE)	mg/kg	< 0.27 U	< 0.00104 U	--	--
Methylene Chloride	mg/kg	< 0.17 U	**0.00512 J**	< 0.0050 U	--
Methyliodide	mg/kg	< 1.3 U	**0.00226**	< 0.0050 U	--
n-Butylbenzene	mg/kg	**1.2**	< 0.00104 U	--	--
n-Propylbenzene	mg/kg	**1.1**	**0.00148**	--	--
o-Xylene	mg/kg	**2.3**	**0.00512**	--	--
p-Isopropyltoluene	mg/kg	**0.4**	**0.00245**	--	--
sec-Butylbenzene	mg/kg	**0.37**	**0.00072 J**	--	--
Styrene	mg/kg	**9.3**	**0.00108**	--	--
tert-Butylbenzene	mg/kg	< 0.27 U	< 0.00104 U	--	--
Tetrachloroethene (PCE)	mg/kg	**0.81**	< 0.00104 U	< 0.0010 U	--
trans-1,2-Dichloroethene	mg/kg	< 0.27 U	< 0.00104 U	< 0.0010 U	--
trans-1,3-Dichloropropene	mg/kg	< 0.11 U	< 0.00104 U	< 0.0010 U	--
Trichloroethene (TCE)	mg/kg	**0.57**	< 0.00104 U	< 0.0010 U	--
Trichlorofluoromethane	mg/kg	< 0.27 U	< 0.00208 U	< 0.0010 U	--
Vinyl Acetate	mg/kg	< 1.3 U	< 0.0052 U	--	--
Vinyl Chloride	mg/kg	< 0.11 U	< 0.00104 U	< 0.0010 U	--
Conventionals					
Total Organic Carbon	%	**23**	**1.42**	--	--
Total Solids	%	**34.4**	**71.15**	**96**	--

Table I.3.D. Catch Basin Solids Analytical Results

South Park Marina Site, Seattle, Washington

Notes:

Bold - detected

mg/kg = milligrams per kilogram

"--" = Results not available

U = Analyte not detected at or above Reporting Limit (RL) shown

J = Result value estimated

UJ = Analyte not detected, and the Reporting Limit (RL) is an estimate

R = Rejected, refer to data validation report

RDL = reported detection limit

RI = Remedial Investigation

SL = screening level

MTCA = Model Toxics Control Act

PCB = polychlorinated biphenyl

All soil/solids concentrations are on a dry-weight basis.

Total PCB Arolclors (ND = 0) are the sum of Aroclors presented, with nondetects = 0, unless all Aroclors were not detected, in which case the Total PCB Aroclors concentration is shown as non-detect at the maximum reporting limit for any individual Aroclor presented.

Total PCB Congeners (ND = 0) and Total PCB TEQ (ND = 0) are summed with nondetects = 0.

LPAHs = low molecular weight polycyclic aromatic hydrocarbons: naphthalene, acenaphthylene, acenaphethene, fluorene, phenanthrene, and anthracene.
HPAHs = high molecular weight polycyclic aromatic hydrocarbons: fluoranthene, pyrene, benz(a)anthracene, chrysene, total benzofluoranthenes, benzo(a)pyrene, indeno(1,2,3,-c,d)pyrene, dibenzo(a,h)anthracene, and benzo(g,h,i)perylene.
cPAHs = carcinogenic polycyclic aromatic hydrocarbons: benzo(a)pyrene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene.

TEQ = toxic equivalency

Table I.3.E - Stormwater Analytical Results

South Park Marina Site, Seattle, Washington

Location		BOAT-PRE	BOAT-MID	BOAT-POST	CB-01	CB-02							
Date		06/01/2017	06/01/2017	06/01/2017	09/19/2017	06/08/2017	09/19/2017	03/05/2021	04/24/2021	05/27/2021	05/27/2021	11/22/2022	10/25/2022
Sample		SPM-BOAT-PRE-WW-20170601	SPM-BOAT-MID-WW-20170601	SPM-BOAT-POST-WW-20170601	SPM-CB-01-SW-20170919	SPM-CB-02-SW-20170608	SPM-CB-02-SW-20170919	CB-02-SW-210305	SPM-CB-02-SW-20210424	SPM-CB-02-SW-20210527	CB-02-SW-210527	CB-02-SW-221122	SPM-CB-02-SW-221025-TIG
Analyte	**Unit**												
Metals, Total													
Antimony	ug/L	< 5.6 U	< 5.6 U	< 5.6 U	--	< 5.6 U	--	--	--	--	--	--	--
Arsenic	ug/L	**14**	< 3.3 U	< 3.3 U	--	**3.9**	--	**8.81 J**	--	--	**3.08**	**1.97**	--
Beryllium	ug/L	< 11 U	< 11 U	< 11 U	--	< 11 U	--	--	--	--	--	--	--
Cadmium	ug/L	**24**	**7.6**	**8.1**	--	< 4.4 U	--	**0.254**	--	--	**1.37**	**0.286**	--
Chromium	ug/L	**13**	< 11 U	< 11 U	--	< 11 U	--	**0.864**	--	--	< 0.5 U	**3.13 J**	--
Copper	ug/L	**18000**	**4800**	**4700**	--	**130**	--	**85.7**	**170**	**67**	**159**	**80.7**	**110**
Lead	ug/L	**88**	**44**	**55**	--	**5.7**	--	**4.8**	**3.9**	**2.3**	**4.2**	**8.34**	--
Mercury	ug/L	< 0.5 U	< 0.5 U	< 0.5 U	--	< 0.5 U	--	< 0.02 U	--	--	**0.00359**	**0.0046**	--
Nickel	ug/L	**64**	**32**	**38**	--	< 22 U	--	**1.16**	--	--	**2.35 J**	**2.28**	--
Selenium	ug/L	< 5.6 U	< 5.6 U	< 5.6 U	--	< 5.6 U	--	--	--	--	--	--	--
Silver	ug/L	< 11 U	< 11 U	< 11 U	--	< 11 U	--	--	--	--	--	--	--
Thallium	ug/L	< 5.6 U	< 5.6 U	< 5.6 U	--	< 5.6 U	--	--	--	--	--	--	--
Zinc	ug/L	**15000**	**5600**	**6300**	--	**1800**	--	**528**	**1800**	**860**	**1040**	**324**	**1200**
Metals, Dissolved													
Arsenic	ug/L	--	--	--	--	--	--	**13.2 J**	--	--	**2.37**	**1.08**	--
Cadmium	ug/L	--	--	--	--	--	--	**0.138 J**	--	--	**0.796**	< 0.2 U	--
Chromium	ug/L	--	--	--	--	--	--	< 0.5 UJ	--	--	< 0.5 U	< 1 U	--
Copper	ug/L	--	--	--	--	--	--	**35.1 J**	**160**	**48**	**41.3**	**38.7**	**76**
Lead	ug/L	--	--	--	--	--	--	**0.198 J**	**1.6**	**0.72**	**0.474**	**0.261**	--
Mercury	ug/L	--	--	--	--	--	--	< 0.02 UJ	--	--	**0.00175**	< 0.0008 U	--
Nickel	ug/L	--	--	--	--	--	--	**0.681 J**	--	--	**1.43**	**1.22**	--
Zinc	ug/L	--	--	--	--	--	--	**404 J**	**1800**	**820**	**825**	**314**	**1200**
Butyl Tins													
Dibutyltin Ion	ug/L	--	--	--	--	--	--	< 0.0077 U	--	--	< 0.0077 UJ	--	--
Monobutyltin	ug/L	--	--	--	--	--	--	**0.0117 J**	--	--	**0.0112 J**	--	--
Tetrabutyltin	ug/L	--	--	--	--	--	--	--	--	--	< 0.03 U	--	--
Tributyltin Ion	ug/L	--	--	--	--	--	--	< 0.0052 U	--	--	< 0.0052 UJ	--	--
Polychlorinated Biphenyl (PCB) Aroclors													
Total PCB Aroclors (ND = 0)	ug/L	< 0.054 U	< 0.05 U	< 0.053 U	< 0.047 U	< 0.047 U	< 0.048 U	< 0.01 U	--	--	**0.015 J**	--	--
Polychlorinated Biphenyl (PCB) Congeners													
Total PCB Congeners (ND = 0)	ug/L	**0.044**	**0.000484**	**0.000924**	**4.17E-03 J**	**6.82E-03 J**	**3.8E-03 J**	--	--	--	--	--	--
Total PCB TEQ (ND = 0)	ug/L	--	--	--	**5.05E-07 J**	**8.38E-07 J**	**2.92E-07 J**	--	--	--	--	--	--
Dioxins/Furans													
Total Dioxin/Furan TEQ (ND = 1/2 RL	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
2,3,7,8-TCDD	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)													
1-Methylnaphthalene	ug/L	**0.12**	**0.18**	**0.17**	--	< 0.096 U	--	< 0.1 U	--	--	**0.557**	< 0.1 U	--
2-Methylnaphthalene	ug/L	< 0.11 U	< 0.1 U	< 0.1 U	--	< 0.096 U	--	< 0.1 U	--	--	**0.822**	< 0.1 U	--
Acenaphthene	ug/L	**0.35**	**1.8**	< 0.51 U	--	< 0.096 U	--	< 0.1 U	--	--	**0.032**	< 0.01 U	--
Acenaphthylene	ug/L	**1.4**	**19**	**16**	--	< 0.096 U	--	< 0.1 U	--	--	**0.399**	< 0.01 U	--
Anthracene	ug/L	**4**	**8.3**	**6.8**	--	< 0.096 U	--	< 0.1 U	--	--	**0.033**	< 0.01 U	--
Benzo(g,h,i)perylene	ug/L	< 0.011 U	**0.018**	**0.017**	--	< 0.0096 U	--	< 0.1 U	--	--	**0.051**	< 0.02 U	--
Fluoranthene	ug/L	**0.32**	**6.9**	**3**	--	< 0.096 U	--	**0.02 J**	--	--	**0.071**	**0.15**	--
Fluorene	ug/L	< 0.11 U	**0.15**	**0.12**	--	< 0.096 U	--	< 0.1 U	--	--	**0.071**	< 0.01 U	--
Naphthalene	ug/L	< 0.11 U	< 0.1 U	< 0.1 U	--	< 0.096 U	--	< 0.1 U	--	--	**1.73**	< 0.1 U	--
Phenanthrene	ug/L	< 0.11 U	< 0.1 U	< 0.1 U	--	< 0.096 U	--	< 0.1 U	--	--	**0.113**	**0.05**	--
Pyrene	ug/L	**0.21**	**6**	**3.6**	--	< 0.096 U	--	**0.03 J**	--	--	**0.11**	**0.13**	--
Benz(a)anthracene	ug/L	**0.4**	**2.7**	**1.8**	--	< 0.0096 U	--	< 0.1 U	--	--	**0.012**	**0.026**	--
Benzo(a)pyrene	ug/L	**0.014**	**0.12**	**0.12**	--	< 0.0096 U	--	< 0.1 U	--	--	**0.012**	**0.019**	--
Benzo(b)fluoranthene	ug/L	**0.031**	**0.2**	**0.17**	--	< 0.0096 U	--	< 0.1 U	--	--	**0.01**	**0.059**	--
Benzo(j)fluoranthene	ug/L	--	--	--	--	--	--	< 0.1 U	--	--	**0.003 J**	--	--
Benzo(j,k)fluoranthene	ug/L	< 0.011 U	**0.11**	**0.08**	--	< 0.0096 U	--	--	--	--	--	--	--
Benzo(k)fluoranthene	ug/L	--	--	--	--	--	--	< 0.1 U	--	--	**0.005 J**	**0.022**	--
Chrysene	ug/L	**0.048**	**0.59**	**0.42**	--	< 0.0096 U	--	< 0.1 U	--	--	**0.021**	**0.077**	--
Dibenzo(a,h)anthracene	ug/L	< 0.011 U	< 0.01 U	< 0.01 U	--	< 0.0096 U	--	< 0.1 U	--	--	< 0.01 UJ	< 0.01 U	--
Indeno(1,2,3-cd)pyrene	ug/L	**0.012**	**0.024**	**0.022**	--	< 0.0096 U	--	< 0.1 U	--	--	**0.009 J**	**0.014**	--
Total Benzofluoranthenes	ug/L	--	--	--	--	< 0.0096 U	--	< 0.2 U	--	--	**0.019**	**0.081**	--
Total HPAHs (ND = 1/2 RDL)	ug/L	--	--	--	--	< 0.096 U	--	**0.5 J**	--	--	**0.309 J**	**0.512**	--
Total LPAHs (ND = 1/2 RDL)	ug/L	--	--	--	--	< 0.096 U	--	< 0.1 U	--	--	**2.38**	**0.12**	--
Total cPAHs TEQ (ND = 1/2 RDL)	ug/L	**0.05878**	**0.4293**	**0.3314**	--	< 0.00725 U	--	< 0.0755 U	--	--	**0.0163 J**	**0.0324**	--
Semivolatile Organic Compounds (SVOCs)													
1,2-Dinitrobenzene	ug/L	< 1.1 U	< 1 U	< 1 U	--	< 0.96 U	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	ug/L	< 1.1 U	< 1 U	< 1 U	--	< 0.96 U	--	--	--	--	--	< 0.1 U	--
1,3-Dinitrobenzene	ug/L	< 1.1 U	< 1 U	< 1 U	--	< 0.96 U	--	--	--	--	--	--	--
1,4-Dinitrobenzene	ug/L	< 1.1 U	< 1 U	< 1 U	--	< 0.96 U	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	ug/L	< 1.1 U	< 1 U	< 1 U	--	< 0.96 U	--	--	--	--	--	--	--
2,3,5,6-Tetrachlorophenol	ug/L	< 1.1 U	< 1 U	< 1 U	--	< 0.96 U	--	--	--	--	--	--	--
2,3-Dichloroaniline	ug/L	< 1.1 U	< 1 U	< 1 U	--	< 0.96 U	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	ug/L	< 1.1 U	< 1 U	< 1 U	--	< 0.96 U	--	< 1 U	--	--	< 1 U	< 1 U	--
2,4,6-Trichlorophenol	ug/L	< 1.1 U	< 1 U	< 1 U	--	< 0.96 U	--	< 1 U	--	--	< 1 U	< 1 U	--
2,4-Dichlorophenol	ug/L	< 1.1 U	< 1 U	< 1 U	--	< 0.96 U	--	< 1 U	--	--	< 1 U	< 1 U	--
2,4-Dimethylphenol	ug/L	< 1.1 U	< 1 U	< 1 U	--	< 0.96 U	--	< 1 U	--	--	**1.7**	< 1 R	--
2,4-Dinitrophenol	ug/L	< 5.6 U	< 5.1 U	< 5.1 U	--	< 4.8 U	--	< 2 UJ	--	--	< 2 UJ	< 3 U	--
2,4-Dinitrotoluene	ug/L	< 1.1 U	< 1 U	< 1 U	--	< 0.96 U	--	< 1 U	--	--	< 1 U	< 0.5 U	--
2,6-Dinitrotoluene	ug/L	< 1.1 U	< 1 U	< 1 U	--	< 0.96 U	--	< 1 U	--	--	< 1 U	< 0.5 U	--
2-Chloronaphthalene	ug/L	< 1.1 U	< 1 U	< 1 U	--	< 0.96 U	--	< 0.2 U	--	--	< 0.01 U	< 0.1 U	--
2-Chlorophenol	ug/L	< 1.1 U	< 1 U	< 1 U	--	< 0.96 U	--	< 0.2 U	--	--	< 0.2 U	< 1 U	--
2-Methylphenol	ug/L	< 1.1 U	< 1 U	< 1 U	--	< 0.96 U	--	< 0.2 U	--	--	**1.8**	< 1 U	--
2-Nitroaniline	ug/L	< 1.1 U	< 1 U	< 1 U	--	< 0.96 U	--	< 1 U	--	--	< 1 U	< 0.5 U	--
2-Nitrophenol	ug/L	< 1.1 U	< 1 U	< 1 U	--	< 0.96 U	--	< 1 U	--	--	< 1 U	< 1 U	--
3 & 4 Methylphenol	ug/L	**1.5**	< 1 U	< 1 U	--	< 0.96 U	--	--	--	--	--	< 2 U	--
3,3'-Dichlorobenzidine	ug/L	< 1.1 U	< 1 U	< 1 U	--	< 0.96 U	--	< 1 U	--	--	< 1 U	< 1 U	--
3-Nitroaniline	ug/L	< 1.1 U	< 1 U	< 1 U	--	< 0.96 U	--	< 1 U	--	--	< 1 U	< 10 U	--
4,6-Dinitro-2-methylphenol	ug/L	< 5.6 U	< 5.1 U	< 5.1 U	--	< 4.8 U	--	< 2 U	--	--	< 2 U	< 3 U	--
4-Bromophenyl phenyl ether	ug/L	< 1.1 U	< 1 U	< 1 U	--	< 0.96 U	--	< 0.2 U	--	--	< 0.2 U	< 0.1 U	--
4-Chloro-3-methylphenol	ug/L	< 1.1 U	< 1 U	< 1 U	--	< 0.96 U	--	< 1 U	--	--	< 1 U	< 1 U	--
4-Chloroaniline	ug/L	< 1.1 U	< 1 U	< 1 U	--	< 0.96 U	--	< 1 UJ	--	--	< 1 UJ	< 10 U	--
4-Chlorophenyl phenyl ether	ug/L	< 1.1 U	< 1 U	< 1 U	--	< 0.96 U	--	< 0.2 UJ	--	--	< 0.2 U	< 0.1 U	--
4-Methylphenol	ug/L	--	--	--	--	--	--	**0.1 J**	--	--	**1.8**	--	--
4-Nitroaniline	ug/L	< 1.1 U	< 1 U	< 1 U	--	< 0.96 U	--	< 1 U	--	--	< 1 U	< 10 U	--
4-Nitrophenol	ug/L	< 5.6 U	< 5.1 U	< 5.1 U	--	< 4.8 U	--	< 1 U	--	--	< 1 U	< 3 U	--
Aniline	ug/L	< 5.6 U	< 5.1 U	< 5.1 U	--	< 4.8 U	--	--	--	--	--	--	--
Benzidine	ug/L	< 5.6 U	< 5.1 U	< 5.1 U	--	< 4.8 U	--	--	--	--	--	--	--
Benzoic acid	ug/L	--	--	--	--	--	--	< 2 U	--	--	< 2 U	< 5 U	--
Benzyl alcohol	ug/L	**3.1**	**9.8**	**7.6**	--	< 0.96 U	--	< 0.2 U	--	--	**1.3**	< 1 U	--
Benzyl butyl phthalate	ug/L	< 1.1 U	< 1 U	< 1 U	--	< 0.96 U	--	**0.09 J**	--	--	**0.08 J**	< 1 U	--
Bis(2-chloro-1-methylethyl) ether	ug/L	--	--	--	--	--	--	< 0.2 U	--	--	< 0.2 U	< 0.1 U	--
Bis(2-chloroethoxy)methane	ug/L	< 1.1 U	< 1 U	< 1 U	--	< 0.96 U	--	< 0.2 U	--	--	< 0.2 U	< 0.1 U	--
Bis(2-chloroethyl) ether	ug/L	< 1.1 U	< 1 U	< 1 U	--	< 0.96 U	--	< 0.2 U	--	--	< 0.2 U	< 0.1 U	--
bis(2-Chloroisopropyl)ether	ug/L	< 1.1 U	< 1 U	< 1 U	--	< 0.96 U	--	--	--	--	--	--	--
Bis(2-ethylhexyl) adipate	ug/L	< 1.1 U	< 1 U	< 1 U	--	< 0.96 U	--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate	ug/L	< 1.1 U	< 1 U	< 1 U	--	**59**	--	**24.7 J**	--	--	**6.9**	**11**	--
Carbazole	ug/L	< 1.1 U	**1.6**	< 1 U	--	< 0.96 U	--	< 0.2 U	--	--	**0.009 J**	< 0.1 U	--
Dibenzofuran	ug/L	< 1.1 U	< 1 U	< 1 U	--	< 0.96 U	--	< 0.1 U	--	--	**0.01**	< 0.1 U	--
Diethyl phthalate	ug/L	< 1.1 U	< 1 U	< 1 U	--	< 0.96 U	--	< 0.2 U	--	--	< 0.2 U	< 1 U	--
Dimethyl phthalate	ug/L	< 1.1 U	**4.3**	**4**	--	< 0.96 U	--	**0.2**	--	--	**0.1 J**	< 1 U	--
Di-n-butyl phthalate	ug/L	**2.1**	< 1 U	< 1 U	--	**1.9**	--	**0.9**	--	--	**0.4**	< 1 U	--
Di-n-octyl phthalate	ug/L	< 1.1 U	< 1 U	< 1 U	--	< 0.96 U	--	**1.1**	--	--	**0.1 J**	< 1 U	--
Hexachlorobenzene	ug/L	< 1.1 U	< 1 U	< 1 U	--	< 0.96 U	--	< 0.2 U	--	--	< 0.2 U	< 0.1 U	--
Hexachlorobutadiene	ug/L	< 1.1 U	< 1 U	< 1 U	--	< 0.96 U	--	< 0.2 U	--	--	< 0.2 U	< 0.1 U	--
Hexachlorocyclopentadiene	ug/L	< 1.1 U	< 1 U	< 1 U	--	< 0.96 U	--	< 1 UJ	--	--	< 1 U	< 0.3 U	--
Hexachloroethane	ug/L	< 1.1 U	< 1 U	< 1 U	--	< 0.96 U	--	< 0.2 U	--	--	< 0.2 U	< 0.1 U	--
Isophorone	ug/L	< 1.1 U	< 1 U	< 1 U	--	< 0.96 U	--	< 0.2 U	--	--	< 0.2 U	< 0.1 U	--
Nitrobenzene	ug/L	< 1.1 U	< 1 U	< 1 U	--	< 0.96 U	--	< 0.2 U	--	--	< 0.2 U	< 0.1 U	--
N-Nitrosodimethylamine	ug/L	< 1.1 U	< 1 U	< 1 U	--	< 0.96 U	--	--	--	--	--	< 0.1 U	--
N-Nitroso-di-n-propylamine	ug/L	< 1.1 U	< 1 U	< 1 U	--	< 0.96 U	--	< 0.2 U	--	--	< 0.2 U	< 0.1 U	--
N-Nitrosodiphenylamine	ug/L	< 1.1 U	< 1 U	< 1 U	--	< 0.96 U	--	< 0.2 U	--	--	< 0.2 U	< 0.1 U	--
Pentachlorophenol	ug/L	< 5.6 U	< 5.1 U	< 5.1 U	--	< 4.8 U	--	< 1 UJ	--	--	< 1 U	< 0.5 U	--
Perylene	ug/L	--	--	--	--	--	--	--	--	--	< 0.01 U	--	--
Phenol	ug/L	**42**	< 1 U	< 1 U	--	< 0.96 U	--	**0.08 J**	--	--	**1.1**	< 1 U	--
Pyridine	ug/L	< 1.1 U	< 1 U	< 1 U	--	< 0.96 U	--	--	--	--	--	--	--

Table I.3.E - Stormwater Analytical Results

South Park Marina Site, Seattle, Washington

Location		BOAT-PRE	BOAT-MID	BOAT-POST	CB-01	CB-02							
Date		06/01/2017	06/01/2017	06/01/2017	09/19/2017	06/08/2017	09/19/2017	03/05/2021	04/24/2021	05/27/2021	05/27/2021	11/22/2022	10/25/2022
Sample		SPM-BOAT-PRE-WW-20170601	SPM-BOAT-MID-WW-20170601	SPM-BOAT-POST-WW-20170601	SPM-CB-01-SW-20170919	SPM-CB-02-SW-20170608	SPM-CB-02-SW-20170919	CB-02-SW-210305	SPM-CB-02-SW-20210424	SPM-CB-02-SW-20210527	CB-02-SW-210527	CB-02-SW-221122	SPM-CB-02-SW-221025-TIG
Analyte	**Unit**												
Pesticides													
4,4'-DDD	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
4,4'-DDE	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
4,4'-DDT	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Aldrin	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Alpha-BHC	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Beta-BHC	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
cis-Chlordane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Delta-BHC	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Dieldrin	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Endosulfan I	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Endosulfan II	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Endosulfan Sulfate	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Endrin	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Endrin Aldehyde	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Endrin ketone	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Heptachlor	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Heptachlor Epoxide	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Lindane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Methoxychlor	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Toxaphene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
trans-Chlordane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Total Petroleum Hydrocarbons (TPH)													
Gasoline Range Organics	ug/L	--	--	--	--	--	--	< 100 U	--	--	**127**	--	--
Diesel Range Organics	ug/L	--	--	--	--	--	--	**115**	--	--	< 100 U	--	**460**
Motor Oil Range Organics	ug/L	--	--	--	--	--	--	**380**	--	--	**514**	--	**970**
Diesel + Oil Extended Range Organi	ug/L	--	--	--	--	--	--	**495**	--	--	**514**	--	--
Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)													
Benzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Total Xylenes	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds (VOCs)													
1,1,1,2-Tetrachloroethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	ug/L	--	--	--	--		--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	ug/L	< 1.1 U	< 1 U	< 1 U	--	< 0.96 U	--	< 0.2 U	--	--	< 0.2 U	< 0.1 U	--
1,2,4-Trimethylbenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	ug/L	--	--	--	--	< 0.96 U	--	< 0.2 U	--	--	< 0.2 U	< 0.1 U	--
1,2-Dichloroethane (EDC)	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	ug/L	< 1.1 U	< 1 U	< 1 U	--	< 0.96 U	--	< 0.2 U	--	--	< 0.2 U	< 0.1 U	--
1,3-Dichloropropane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	ug/L	< 1.1 U	< 1 U	< 1 U	--	< 0.96 U	--	< 0.2 U	--	--	< 0.2 U	< 0.1 U	--
1-Chloropropane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl Vinyl Ether	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene (DCE)	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
m,p-Xylenes	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Methyliodide	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
o-Xylene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Acetate	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Conventionals													
Total Organic Carbon	ug/L	**23000**	**12000**	**12000**	--	**16000**	--	--	--	--	--	--	--
Total Suspended Solids	mg/L	**74**	**20**	**16**	--	**8**	--	**6**	**24**	**4**	**15**	**23**	**27**
Field Parameters													
Temperature	deg C	**21.17**	**21.09**	**21.45**	--	**16.4**	--	--	--	--	--	--	--
Specific Conductance	umhos/cm	**865**	**689**	**692**	--	**38**	--	--	--	--	--	--	--
Dissolved Oxygen	mg/L	**3.19**	< 0 U	< 0 U	--	**3.22**	--	--	--	--	--	--	--
pH	pH units	**4.05**	**3.82**	**3.89**	--	**6.75**	--	--	--	--	--	--	**6.9**
Oxidation Reduction Potential	mV	**258**	**351**	**348**	--	**159**	--	--	--	--	--	--	--
Turbidity	NTU	**128**	**37**	**31.3**	--	**7.6**	--	--	--	--	--	--	**23**

Table I.3.E - Stormwater Analytical Results

South Park Marina Site, Seattle, Washington

Location		CB-02 (Continued)				CB-05			CB-06					
Date		11/04/2022	01/12/2023	03/02/2023	04/07/2023	09/19/2017	04/24/2021	05/27/2021	06/08/2017	09/19/2017	03/04/2021	04/24/2021	05/27/2021	05/27/2021
Sample		SPM-CB-02-SW-221104-TIG	SPM-CB-02-SW-230112-TIG	SPM-CB-02-SW-230302-TIG	SPM-CB-02-SW-230407-TIG	SPM-CB-05-SW-20170919	SPM-CB-05-SW-20210424	SPM-CB-05-SW-20210527	SPM-CB-06-SW-20170608	SPM-CB-06-SW-20170919	CB-06-SW-210304	SPM-CB-06-SW-20210424	SPM-CB-06-SW-20210527	CB-06-SW-210527
Analyte	**Unit**													
Metals, Total														
Antimony	ug/L	--	--	--	--	--	--	--	< 5.6 U	--	--	--	--	--
Arsenic	ug/L	--	--	--	--	--	--	--	< 3.3 U	--	**1.85**	--	--	**19**
Beryllium	ug/L	--	--	--	--	--	--	--	< 11 U	--	--	--	--	--
Cadmium	ug/L	--	--	--	--	--	--	--	< 4.4 U	--	**0.237**	--	--	**0.432**
Chromium	ug/L	--	--	--	--	--	--	--	< 11 U	--	**1.45**	--	--	< 0.5 U
Copper	ug/L	**45**	**63**	**44**	**63.3**	--	**300**	**110**	**120**	--	**99**	**120**	**300**	**77.6**
Lead	ug/L	--	--	--	--	--	**7.1**	**6**	**5.9**	--	**5.68**	**5.4**	**19**	**3.05**
Mercury	ug/L	--	--	--	--	--	--	--	< 0.5 U	--	**0.013 J**	--	--	**0.00532**
Nickel	ug/L	--	--	--	--	--	--	--	< 22 U	--	**2.73**	--	--	**3.04**
Selenium	ug/L	--	--	--	--	--	--	--	< 5.6 U	--	--	--	--	--
Silver	ug/L	--	--	--	--	--	--	--	< 11 U	--	--	--	--	--
Thallium	ug/L	--	--	--	--	--	--	--	< 5.6 U	--	--	--	--	--
Zinc	ug/L	**1400**	**590**	**280**	**416**	--	**89**	**130**	**92**	--	**93.8**	**85**	**330**	**137**
Metals, Dissolved														
Arsenic	ug/L	--	--	--	--	--	--	--	--	--	**1.27 J**	--	--	**15.7**
Cadmium	ug/L	--	--	--	--	--	--	--	--	--	**0.131 J**	--	--	**0.254**
Chromium	ug/L	--	--	--	--	--	--	--	--	--	< 0.5 UJ	--	--	**2.85**
Copper	ug/L	--	--	--	--	--	**320**	**77**	--	--	**33.5 J**	**87**	**46**	**50.5**
Lead	ug/L	--	--	--	--	--	**3.9**	**2**	--	--	**0.128 J**	**1.1**	**0.55**	**0.51**
Mercury	ug/L	--	--	--	--	--	--	--	--	--	< 0.02 UJ	--	--	**0.0023**
Nickel	ug/L	--	--	--	--	--	--	--	--	--	**0.845 J**	--	--	**2.11**
Zinc	ug/L	--	--	--	--	--	**110**	**100**	--	--	**64.4 J**	**58**	**78**	**95.8**
Butyl Tins														
Dibutyltin Ion	ug/L	--	--	--	--	--	--	--	--	--	< 0.0077 U	--	--	< 0.0077 U
Monobutyltin	ug/L	--	--	--	--	--	--	--	--	--	**0.009 J**	--	--	**0.0696**
Tetrabutyltin	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	< 0.03 U
Tributyltin Ion	ug/L	--	--	--	--	--	--	--	--	--	**0.0111**	--	--	< 0.0052 U
Polychlorinated Biphenyl (PCB) Aroclors														
Total PCB Aroclors (ND = 0)	ug/L	--	--	--	--	< 0.047 U	--	--	< 0.047 U	< 0.048 U	**0.017 J**	--	--	< 0.01 U
Polychlorinated Biphenyl (PCB) Congeners														
Total PCB Congeners (ND = 0)	ug/L	--	--	--	--	**2.21E-02 J**	--	--	**5.74E-02 J**	**2.67E-02 J**	--	--	--	--
Total PCB TEQ (ND = 0)	ug/L	--	--	--	--	**1.41E-06**	--	--	**1.14E-05 J**	**2.37E-06 J**	--	--	--	--
Dioxins/Furans														
Total Dioxin/Furan TEQ (ND = 1/2 RL	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
2,3,7,8-TCDD	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)														
1-Methylnaphthalene	ug/L	--	--	--	--	--	--	--	< 0.094 U	--	< 0.1 U	--	--	**0.01 J**
2-Methylnaphthalene	ug/L	--	--	--	--	--	--	--	< 0.094 U	--	< 0.1 U	--	--	< 0.01 U
Acenaphthene	ug/L	--	--	--	--	--	--	--	< 0.094 U	--	< 0.1 U	--	--	< 0.01 U
Acenaphthylene	ug/L	--	--	--	--	--	--	--	< 0.094 U	--	< 0.1 U	--	--	< 0.01 U
Anthracene	ug/L	--	--	--	--	--	--	--	< 0.094 U	--	< 0.1 U	--	--	< 0.01 U
Benzo(g,h,i)perylene	ug/L	--	--	--	--	--	--	--	**0.014**	--	< 0.1 U	--	--	**0.023**
Fluoranthene	ug/L	--	--	--	--	--	--	--	< 0.094 U	--	**0.05 J**	--	--	**0.03**
Fluorene	ug/L	--	--	--	--	--	--	--	< 0.094 U	--	< 0.1 U	--	--	**0.004 J**
Naphthalene	ug/L	--	--	--	--	--	--	--	< 0.094 U	--	< 0.1 U	--	--	< 0.01 U
Phenanthrene	ug/L	--	--	--	--	--	--	--	< 0.094 U	--	**0.03 J**	--	--	**0.01**
Pyrene	ug/L	--	--	--	--	--	--	--	< 0.094 U	--	**0.05 J**	--	--	**0.036**
Benz(a)anthracene	ug/L	--	--	--	--	--	--	--	< 0.0094 U	--	< 0.1 U	--	--	**0.005 J**
Benzo(a)pyrene	ug/L	--	--	--	--	--	--	--	< 0.0094 U	--	< 0.1 U	--	--	**0.007 J**
Benzo(b)fluoranthene	ug/L	--	--	--	--	--	--	--	**0.015**	--	< 0.1 U	--	--	**0.014**
Benzo(j)fluoranthene	ug/L	--	--	--	--	--	--	--	--	--	< 0.1 U	--	--	**0.002 J**
Benzo(j,k)fluoranthene	ug/L	--	--	--	--	--	--	--	< 0.0094 U	--	--	--	--	--
Benzo(k)fluoranthene	ug/L	--	--	--	--	--	--	--	--	--	< 0.1 U	--	--	**0.005 J**
Chrysene	ug/L	--	--	--	--	--	--	--	**0.032**	--	< 0.1 U	--	--	**0.029**
Dibenzo(a,h)anthracene	ug/L	--	--	--	--	--	--	--	< 0.0094 U	--	< 0.1 U	--	--	**0.001 J**
Indeno(1,2,3-cd)pyrene	ug/L	--	--	--	--	--	--	--	< 0.0094 U	--	< 0.1 U	--	--	**0.008 J**
Total Benzofluoranthenes	ug/L	--	--	--	--	--	--	--	**0.015**	--	< 0.2 U	--	--	**0.021**
Total HPAHs (ND = 1/2 RDL)	ug/L	--	--	--	--	--	--	--	**0.179**	--	**0.55 J**	--	--	**0.16 J**
Total LPAHs (ND = 1/2 RDL)	ug/L	--	--	--	--	--	--	--	< 0.094 U	--	**0.28 J**	--	--	**0.034 J**
Total cPAHs TEQ (ND = 1/2 RDL)	ug/L	--	--	--	--	--	--	--	**0.0084**	--	< 0.0755 U	--	--	**0.0106 J**
Semivolatile Organic Compounds (SVOCs)														
1,2-Dinitrobenzene	ug/L	--	--	--	--	--	--	--	< 0.94 U	--	--	--	--	--
1,2-Diphenylhydrazine	ug/L	--	--	--	--	--	--	--	< 0.94 U	--	--	--	--	--
1,3-Dinitrobenzene	ug/L	--	--	--	--	--	--	--	< 0.94 U	--	--	--	--	--
1,4-Dinitrobenzene	ug/L	--	--	--	--	--	--	--	< 0.94 U	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	ug/L	--	--	--	--	--	--	--	< 0.94 U	--	--	--	--	--
2,3,5,6-Tetrachlorophenol	ug/L	--	--	--	--	--	--	--	< 0.94 U	--	--	--	--	--
2,3-Dichloroaniline	ug/L	--	--	--	--	--	--	--	< 0.94 U	--	--	--	--	--
2,4,5-Trichlorophenol	ug/L	--	--	--	--	--	--	--	< 0.94 U	--	< 1 U	--	--	< 1 UJ
2,4,6-Trichlorophenol	ug/L	--	--	--	--	--	--	--	< 0.94 U	--	< 1 U	--	--	< 1 UJ
2,4-Dichlorophenol	ug/L	--	--	--	--	--	--	--	< 0.94 U	--	< 1 U	--	--	< 1 UJ
2,4-Dimethylphenol	ug/L	--	--	--	--	--	--	--	< 0.94 U	--	< 1 U	--	--	< 1 UJ
2,4-Dinitrophenol	ug/L	--	--	--	--	--	--	--	< 4.7 U	--	< 2 UJ	--	--	< 2 UJ
2,4-Dinitrotoluene	ug/L	--	--	--	--	--	--	--	< 0.94 U	--	< 1 U	--	--	< 1 U
2,6-Dinitrotoluene	ug/L	--	--	--	--	--	--	--	< 0.94 U	--	< 1 U	--	--	< 1 U
2-Chloronaphthalene	ug/L	--	--	--	--	--	--	--	< 0.94 U	--	< 0.2 U	--	--	< 0.01 U
2-Chlorophenol	ug/L	--	--	--	--	--	--	--	< 0.94 U	--	< 0.2 U	--	--	< 0.2 UJ
2-Methylphenol	ug/L	--	--	--	--	--	--	--	< 0.94 U	--	< 0.2 U	--	--	< 0.2 UJ
2-Nitroaniline	ug/L	--	--	--	--	--	--	--	< 0.94 U	--	< 1 U	--	--	< 1 U
2-Nitrophenol	ug/L	--	--	--	--	--	--	--	< 0.94 U	--	< 1 U	--	--	< 1 UJ
3 & 4 Methylphenol	ug/L	--	--	--	--	--	--	--	< 0.94 U	--	--	--	--	--
3,3'-Dichlorobenzidine	ug/L	--	--	--	--	--	--	--	< 0.94 U	--	< 1 U	--	--	< 1 U
3-Nitroaniline	ug/L	--	--	--	--	--	--	--	< 0.94 U	--	< 1 U	--	--	< 1 U
4,6-Dinitro-2-methylphenol	ug/L	--	--	--	--	--	--	--	< 4.7 U	--	< 2 U	--	--	< 2 UJ
4-Bromophenyl phenyl ether	ug/L	--	--	--	--	--	--	--	< 0.94 U	--	< 0.2 U	--	--	< 0.2 U
4-Chloro-3-methylphenol	ug/L	--	--	--	--	--	--	--	< 0.94 U	--	< 1 U	--	--	< 1 UJ
4-Chloroaniline	ug/L	--	--	--	--	--	--	--	< 0.94 U	--	< 1 UJ	--	--	< 1 UJ
4-Chlorophenyl phenyl ether	ug/L	--	--	--	--	--	--	--	< 0.94 U	--	< 0.2 UJ	--	--	< 0.2 U
4-Methylphenol	ug/L	--	--	--	--	--	--	--	--	--	< 0.2 U	--	--	**0.03 J**
4-Nitroaniline	ug/L	--	--	--	--	--	--	--	< 0.94 U	--	< 1 U	--	--	< 1 U
4-Nitrophenol	ug/L	--	--	--	--	--	--	--	< 4.7 U	--	< 1 U	--	--	< 1 UJ
Aniline	ug/L	--	--	--	--	--	--	--	< 4.7 U	--	--	--	--	--
Benzidine	ug/L	--	--	--	--	--	--	--	< 4.7 U	--	--	--	--	--
Benzoic acid	ug/L	--	--	--	--	--	--	--	--	--	< 2 U	--	--	**0.6 J**
Benzyl alcohol	ug/L	--	--	--	--	--	--	--	< 0.94 U	--	**0.2**	--	--	**0.09 J**
Benzyl butyl phthalate	ug/L	--	--	--	--	--	--	--	< 0.94 U	--	**0.2 J**	--	--	**0.2 J**
Bis(2-chloro-1-methylethyl) ether	ug/L	--	--	--	--	--	--	--	--	--	< 0.2 U	--	--	< 0.2 U
Bis(2-chloroethoxy)methane	ug/L	--	--	--	--	--	--	--	< 0.94 U	--	< 0.2 U	--	--	< 0.2 U
Bis(2-chloroethyl) ether	ug/L	--	--	--	--	--	--	--	< 0.94 U	--	< 0.2 U	--	--	< 0.2 U
bis(2-Chloroisopropyl)ether	ug/L	--	--	--	--	--	--	--	< 0.94 U	--	--	--	--	--
Bis(2-ethylhexyl) adipate	ug/L	--	--	--	--	--	--	--	< 0.94 U	--	--	--	--	--
Bis(2-ethylhexyl) phthalate	ug/L	--	--	--	--	--	--	--	**1.9**	--	**6**	--	--	**21.7**
Carbazole	ug/L	--	--	--	--	--	--	--	< 0.94 U	--	< 0.2 U	--	--	< 0.01 U
Dibenzofuran	ug/L	--	--	--	--	--	--	--	< 0.94 U	--	< 0.1 U	--	--	**0.002 J**
Diethyl phthalate	ug/L	--	--	--	--	--	--	--	< 0.94 U	--	< 0.2 U	--	--	< 0.2 U
Dimethyl phthalate	ug/L	--	--	--	--	--	--	--	**17**	--	**0.2**	--	--	**0.2**
Di-n-butyl phthalate	ug/L	--	--	--	--	--	--	--	< 0.94 U	--	**0.6**	--	--	**0.1 J**
Di-n-octyl phthalate	ug/L	--	--	--	--	--	--	--	< 0.94 U	--	**0.9**	--	--	**0.5**
Hexachlorobenzene	ug/L	--	--	--	--	--	--	--	< 0.94 U	--	< 0.2 U	--	--	< 0.2 U
Hexachlorobutadiene	ug/L	--	--	--	--	--	--	--	< 0.94 U	--	< 0.2 U	--	--	< 0.2 U
Hexachlorocyclopentadiene	ug/L	--	--	--	--	--	--	--	< 0.94 U	--	< 1 UJ	--	--	< 1 U
Hexachloroethane	ug/L	--	--	--	--	--	--	--	< 0.94 U	--	< 0.2 U	--	--	< 0.2 U
Isophorone	ug/L	--	--	--	--	--	--	--	< 0.94 U	--	< 0.2 U	--	--	< 0.2 U
Nitrobenzene	ug/L	--	--	--	--	--	--	--	< 0.94 U	--	< 0.2 U	--	--	< 0.2 U
N-Nitrosodimethylamine	ug/L	--	--	--	--	--	--	--	< 0.94 U	--	--	--	--	--
N-Nitroso-di-n-propylamine	ug/L	--	--	--	--	--	--	--	< 0.94 U	--	< 0.2 U	--	--	< 0.2 U
N-Nitrosodiphenylamine	ug/L	--	--	--	--	--	--	--	< 0.94 U	--	< 0.2 U	--	--	< 0.2 U
Pentachlorophenol	ug/L	--	--	--	--	--	--	--	< 4.7 U	--	**0.3 J**	--	--	**0.5 J**
Perylene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	< 0.01 U
Phenol	ug/L	--	--	--	--	--	--	--	< 0.94 U	--	**0.1 J**	--	--	**0.1 J**
Pyridine	ug/L	--	--	--	--	--	--	--	< 0.94 U	--	--	--	--	--

Table I.3.E - Stormwater Analytical Results

South Park Marina Site, Seattle, Washington

Location		CB-02 (Continued)				CB-05			CB-06					
Date		11/04/2022	01/12/2023	03/02/2023	04/07/2023	09/19/2017	04/24/2021	05/27/2021	06/08/2017	09/19/2017	03/04/2021	04/24/2021	05/27/2021	05/27/2021
Sample		SPM-CB-02-SW-221104-TIG	SPM-CB-02-SW-230112-TIG	SPM-CB-02-SW-230302-TIG	SPM-CB-02-SW-230407-TIG	SPM-CB-05-SW-20170919	SPM-CB-05-SW-20210424	SPM-CB-05-SW-20210527	SPM-CB-06-SW-20170608	SPM-CB-06-SW-20170919	CB-06-SW-210304	SPM-CB-06-SW-20210424	SPM-CB-06-SW-20210527	CB-06-SW-210527
Analyte	**Unit**													
Pesticides														
4,4'-DDD	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
4,4'-DDE	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
4,4'-DDT	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Aldrin	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Alpha-BHC	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Beta-BHC	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-Chlordane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Delta-BHC	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Dieldrin	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Endosulfan I	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Endosulfan II	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Endosulfan Sulfate	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Endrin	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Endrin Aldehyde	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Endrin ketone	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Heptachlor	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Heptachlor Epoxide	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Lindane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Methoxychlor	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Toxaphene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-Chlordane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Petroleum Hydrocarbons (TPH)														
Gasoline Range Organics	ug/L	--	--	--	--	--	--	--	--	--	< 100 U	--	--	< 100 U
Diesel Range Organics	ug/L	**220**	**160**	**160**	**91**	--	--	--	--	--	**397**	--	--	**104**
Motor Oil Range Organics	ug/L	**430**	**960**	**330**	**300**	--	--	--	--	--	**1830**	--	--	**449**
Diesel + Oil Extended Range Organi	ug/L	--	--	--	--	--	--	--	--	--	**2230**	--	--	**553**
Benzene, Toluene, Ethylbenzene, Xylenes (														
Benzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Xylenes	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds (VOCs)														
1,1,1,2-Tetrachloroethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	ug/L	--	--	--	--	--	--	--	< 0.94 U	--	< 0.2 U	--	--	< 0.2 U
1,2,4-Trimethylbenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	ug/L	--	--	--	--	--	--	--	< 0.94 U	--	< 0.2 U	--	--	< 0.2 U
1,2-Dichloroethane (EDC)	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	ug/L	--	--	--	--	--	--	--	< 0.94 U	--	< 0.2 U	--	--	< 0.2 U
1,3-Dichloropropane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	ug/L	--	--	--	--	--	--	--	< 0.94 U	--	< 0.2 U	--	--	< 0.2 U
1-Chloropropane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl Vinyl Ether	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene (DCE)	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
m,p-Xylenes	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyliodide	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
o-Xylene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Acetate	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Conventionals														
Total Organic Carbon	ug/L	--	--	--	--	--	--	--	**15000**	--	**5400**	--	--	**10300**
Total Suspended Solids	mg/L	**9**	**8**	**7**	< 5 U	--	**8**	**8**	**18**	--	**26**	**24**	**20**	**12**
Field Parameters														
Temperature	deg C	--	--	--	--	--	--	--	**19.1**	--	--	--	--	--
Specific Conductance	umhos/cm	--	--	--	--	--	--	--	**19**	--	--	--	--	--
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	**4.09**	--	--	--	--	--
pH	pH units	**7.4**	**6.5**	**6.6**	**7.85**	--	--	--	**6.91**	--	--	--	--	--
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	**135**	--	--	--	--	--
Turbidity	NTU	**14**	**6.4**	**3.6**	--	--	--	--	**31.2**	--	--	--	--	--

Table I.3.E - Stormwater Analytical Results

South Park Marina Site, Seattle, Washington

Location		CB-06 (Continued)						CB-09	OF	SRC-01		SRC-02	SRC-03	SRC-04	SRC-05
Date		11/22/2022	10/25/2022	11/04/2022	01/12/2023	03/02/2023	04/07/2023	11/22/2022	01/12/2023	06/08/2017	10/25/2018	10/25/2018	10/25/2018	10/25/2018	10/25/2018
Sample		CB-06-SW-221122	SPM-CB-06-SW-221025-TIG	SPM-CB-06-SW-2211-04-TIG	SPM-CB-06-SW-230112-TIG	SPM-CB-06-SW-230302-TIG	SPM-CB-06-SW-230407-TIG	SPM-CB-09-SW-20221122-TIG	SPM-NPDES-OF-230112-TIG	SPM-SRC-01-SW-20170608	SPM-SRC-01-SW-20181025	SPM-SRC-02-SW-20181025	SPM-SRC-03-SW-20181025	SPM-SRC-04-SW-20181025	SPM-SRC-05-SW-20181025
Analyte	**Unit**														
Metals, Total															
Antimony	ug/L	--	--	--	--	--	--	--	--	< 5.6 U	--	--	--	--	--
Arsenic	ug/L	**1.99**	--	--	--	--	--	--	--	< 3.3 U	--	--	--	--	--
Beryllium	ug/L	--	--	--	--	--	--	--	--	< 11 U	--	--	--	--	--
Cadmium	ug/L	**0.303**	--	--	--	--	--	--	--	< 4.4 U	--	--	--	--	--
Chromium	ug/L	**2.7 J**	--	--	--	--	--	--	--	**11**	--	--	--	--	--
Copper	ug/L	**41.5**	**81**	**17**	**37**	**40**	**27.2**	**360**	**25**	< 11 U	**18**	**22**	**30**	**88**	**56**
Lead	ug/L	**4.3**	--	--	--	--	--	--	--	**2.9**	--	--	--	--	--
Mercury	ug/L	**0.0046**	--	--	--	--	--	--	--	< 0.5 U	--	--	--	--	--
Nickel	ug/L	**1.86**	--	--	--	--	--	--	--	< 22 U	--	--	--	--	--
Selenium	ug/L	--	--	--	--	--	--	--	--	< 5.6 U	--	--	--	--	--
Silver	ug/L	--	--	--	--	--	--	--	--	< 11 U	--	--	--	--	--
Thallium	ug/L	--	--	--	--	--	--	--	--	< 5.6 U	--	--	--	--	--
Zinc	ug/L	**79**	**150**	**79**	**96**	**160**	**86.1**	**180**	**65**	**1700**	**3300**	**8700**	**1700**	**670**	**110**
Metals, Dissolved															
Arsenic	ug/L	**0.913**	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	ug/L	< 0.2 U	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	ug/L	**3.19 J**	--	--	--	--	--	--	--	--	--	--	--	--	--
Copper	ug/L	**13.1**	**53**	**11**	**14**	--	--	**58**	--	--	--	--	--	--	--
Lead	ug/L	< 0.2 U	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	ug/L	< 0.0008 U	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	ug/L	**1.57**	--	--	--	--	--	--	--	--	--	--	--	--	--
Zinc	ug/L	**39.1**	**64**	**59**	**57**	--	--	**75**	--	--	--	--	--	--	--
Butyl Tins															
Dibutyltin Ion	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Monobutyltin	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrabutyltin	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tributyltin Ion	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Polychlorinated Biphenyl (PCB) Aroclors															
Total PCB Aroclors (ND = 0)	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Polychlorinated Biphenyl (PCB) Congeners															
Total PCB Congeners (ND = 0)	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total PCB TEQ (ND = 0)	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dioxins/Furans															
Total Dioxin/Furan TEQ (ND = 1/2 RL	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,3,7,8-TCDD	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)															
1-Methylnaphthalene	ug/L	< 0.1 U	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene	ug/L	< 0.1 U	--	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene	ug/L	< 0.01 U	--	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene	ug/L	**0.026**	--	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene	ug/L	< 0.01 U	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene	ug/L	**0.041**	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene	ug/L	**0.14**	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene	ug/L	**0.019**	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	ug/L	< 0.1 U	--	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene	ug/L	**0.089**	--	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene	ug/L	**0.18**	--	--	--	--	--	--	--	--	--	--	--	--	--
Benz(a)anthracene	ug/L	**0.024**	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	ug/L	**0.046**	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	ug/L	**0.1**	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(j)fluoranthene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(j,k)fluoranthene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	ug/L	**0.028**	--	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene	ug/L	**0.091**	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	ug/L	< 0.01 U	--	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	ug/L	**0.031**	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Benzofluoranthenes	ug/L	**0.128**	--	--	--	--	--	--	--	--	--	--	--	--	--
Total HPAHs (ND = 1/2 RDL)	ug/L	**0.686**	--	--	--	--	--	--	--	--	--	--	--	--	--
Total LPAHs (ND = 1/2 RDL)	ug/L	**0.194**	--	--	--	--	--	--	--	--	--	--	--	--	--
Total cPAHs TEQ (ND = 1/2 RDL)	ug/L	**0.0657**	--	--	--	--	--	--	--	--	--	--	--	--	--
Semivolatile Organic Compounds (SVOCs)															
1,2-Dinitrobenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	ug/L	< 0.1 U	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dinitrobenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dinitrobenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,3,5,6-Tetrachlorophenol	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,3-Dichloroaniline	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	ug/L	< 1 U	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4,6-Trichlorophenol	ug/L	< 1 U	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4-Dichlorophenol	ug/L	< 1 U	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	ug/L	< 1 R	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4-Dinitrophenol	ug/L	< 3 U	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4-Dinitrotoluene	ug/L	< 0.5 U	--	--	--	--	--	--	--	--	--	--	--	--	--
2,6-Dinitrotoluene	ug/L	< 0.5 U	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chloronaphthalene	ug/L	< 0.1 U	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorophenol	ug/L	< 1 U	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylphenol	ug/L	< 1 U	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Nitroaniline	ug/L	< 0.5 U	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Nitrophenol	ug/L	< 1 U	--	--	--	--	--	--	--	--	--	--	--	--	--
3 & 4 Methylphenol	ug/L	< 2 U	--	--	--	--	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	ug/L	< 1 U	--	--	--	--	--	--	--	--	--	--	--	--	--
3-Nitroaniline	ug/L	< 10 U	--	--	--	--	--	--	--	--	--	--	--	--	--
4,6-Dinitro-2-methylphenol	ug/L	< 3 U	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Bromophenyl phenyl ether	ug/L	< 0.1 U	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chloro-3-methylphenol	ug/L	< 1 U	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chloroaniline	ug/L	< 10 U	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorophenyl phenyl ether	ug/L	< 0.1 U	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methylphenol	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Nitroaniline	ug/L	< 10 U	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Nitrophenol	ug/L	< 3 U	--	--	--	--	--	--	--	--	--	--	--	--	--
Aniline	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzidine	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzoic acid	ug/L	< 5 U	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzyl alcohol	ug/L	< 1 U	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzyl butyl phthalate	ug/L	< 1 U	--	--	--	--	--	--	--	--	--	--	--	--	--
Bis(2-chloro-1-methylethyl) ether	ug/L	< 0.1 U	--	--	--	--	--	--	--	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	ug/L	< 0.1 U	--	--	--	--	--	--	--	--	--	--	--	--	--
Bis(2-chloroethyl) ether	ug/L	< 0.1 U	--	--	--	--	--	--	--	--	--	--	--	--	--
bis(2-Chloroisopropyl)ether	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) adipate	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate	ug/L	**7.5**	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbazole	ug/L	< 0.1 U	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzofuran	ug/L	< 0.1 U	--	--	--	--	--	--	--	--	--	--	--	--	--
Diethyl phthalate	ug/L	< 1 U	--	--	--	--	--	--	--	--	--	--	--	--	--
Dimethyl phthalate	ug/L	< 1 U	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-n-butyl phthalate	ug/L	< 1 U	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-n-octyl phthalate	ug/L	< 1 U	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobenzene	ug/L	< 0.1 U	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	ug/L	< 0.1 U	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	ug/L	< 0.3 U	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachloroethane	ug/L	< 0.1 U	--	--	--	--	--	--	--	--	--	--	--	--	--
Isophorone	ug/L	< 0.1 U	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrobenzene	ug/L	< 0.1 U	--	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine	ug/L	< 0.1 U	--	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitroso-di-n-propylamine	ug/L	< 0.1 U	--	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	ug/L	< 0.1 U	--	--	--	--	--	--	--	--	--	--	--	--	--
Pentachlorophenol	ug/L	**0.89**	--	--	--	--	--	--	--	--	--	--	--	--	--
Perylene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Phenol	ug/L	< 1 U	--	--	--	--	--	--	--	--	--	--	--	--	--
Pyridine	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table I.3.E - Stormwater Analytical Results

South Park Marina Site, Seattle, Washington

Location		CB-06 (Continued)						CB-09	OF	SRC-01		SRC-02	SRC-03	SRC-04	SRC-05
Date		11/22/2022	10/25/2022	11/04/2022	01/12/2023	03/02/2023	04/07/2023	11/22/2022	01/12/2023	06/08/2017	10/25/2018	10/25/2018	10/25/2018	10/25/2018	10/25/2018
Sample		CB-06-SW-221122	SPM-CB-06-SW-221025-TIG	SPM-CB-06-SW-2211-04-TIG	SPM-CB-06-SW-230112-TIG	SPM-CB-06-SW-230302-TIG	SPM-CB-06-SW-230407-TIG	SPM-CB-09-SW-20221122-TIG	SPM-NPDES-OF-230112-TIG	SPM-SRC-01-SW-20170608	SPM-SRC-01-SW-20181025	SPM-SRC-02-SW-20181025	SPM-SRC-03-SW-20181025	SPM-SRC-04-SW-20181025	SPM-SRC-05-SW-20181025
Analyte	**Unit**														
Pesticides															
4,4'-DDD	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4,4'-DDE	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4,4'-DDT	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aldrin	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alpha-BHC	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Beta-BHC	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-Chlordane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Delta-BHC	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dieldrin	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Endosulfan I	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Endosulfan II	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Endosulfan Sulfate	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Endrin	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Endrin Aldehyde	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Endrin ketone	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Heptachlor	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Heptachlor Epoxide	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lindane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methoxychlor	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toxaphene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-Chlordane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Petroleum Hydrocarbons (TPH)															
Gasoline Range Organics	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diesel Range Organics	ug/L	--	**430**	**410**	**200**	**300**	**68**	--	< 60 U	--	--	--	--	--	--
Motor Oil Range Organics	ug/L	--	**1400**	**2100**	**990**	**650**	< 250 U	--	< 160 U	--	--	--	--	--	--
Diesel + Oil Extended Range Organi	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene, Toluene, Ethylbenzene, Xylenes (															
Benzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Xylenes	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds (VOCs)															
1,1,1,2-Tetrachloroethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	ug/L	< 0.1 U	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	ug/L	< 0.1 U	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane (EDC)	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	ug/L	< 0.1 U	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	ug/L	< 0.1 U	--	--	--	--	--	--	--	--	--	--	--	--	--
1-Chloropropane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl Vinyl Ether	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene (DCE)	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
m,p-Xylenes	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyliodide	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
o-Xylene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Acetate	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Conventionals															
Total Organic Carbon	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Suspended Solids	mg/L	**20**	**26**	**7**	**19**	**7**	< 5 U	**21**	< 4 U	--	--	--	--	--	--
Field Parameters															
Temperature	deg C	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Specific Conductance	umhos/cm	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
pH	pH units	--	**7**	**6.7**	**6.7**	**7**	**7.88**	--	**6.9**	--	--	--	--	--	--
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Turbidity	NTU	--	**35**	**4.3**	**44**	**21**	--	**5.1**	**1.1**	--	--	--	--	--	--

Table I.3.E - Stormwater Analytical Results

South Park Marina Site, Seattle, Washington

Location		SWRX-MID				SWRX-POST							
Date		04/12/2017	05/16/2017	06/08/2017	09/19/2017	12/01/2016	01/01/2017	04/12/2017	05/16/2017	06/08/2017	09/19/2017	10/18/2017	10/18/2017
Sample		SPM-SWRX-MID-SW-20170412	SPM-SWRX-MID-SW-20170516	SPM-SWRX-MID-SW-20170608	SPM-SWRX-MID-SW-20170919	SPM-SWRX-POST-SW-20161201	SPM-SWRX-POST-SW-20170101	SPM-SWRX-POST-SW-20170412	SPM-SWRX-POST-SW-20170516	SPM-SWRX-POST-SW-20170608	SPM-SWRX-POST-SW-20170919	SPM-NPDES-SW-20171018	SPM-SWRX-POST-SW-20171018
Analyte	**Unit**												
Metals, Total													
Antimony	ug/L	--	--	< 5.6 U	--	--	--	--	--	< 5.6 U	--	--	--
Arsenic	ug/L	--	--	< 3.3 U	--	--	--	--	--	< 3.3 U	--	--	--
Beryllium	ug/L	--	--	< 11 U	--	--	--	--	--	< 11 U	--	--	--
Cadmium	ug/L	--	--	< 4.4 U	--	--	--	--	--	< 4.4 U	--	--	--
Chromium	ug/L	--	--	< 11 U	--	--	--	--	--	< 11 U	--	--	--
Copper	ug/L	--	--	**1400**	--	--	**7.03**	**3.5**	**17**	**42**	--	**20**	--
Lead	ug/L	--	--	**26**	--	--	**0.202**	--	--	**2.4**	--	--	--
Mercury	ug/L	--	--	< 0.5 U	--	--	--	--	--	< 0.5 U	--	--	--
Nickel	ug/L	--	--	< 22 U	--	--	--	--	--	< 22 U	--	--	--
Selenium	ug/L	--	--	< 5.6 U	--	--	--	--	--	< 5.6 U	--	--	--
Silver	ug/L	--	--	< 11 U	--	--	--	--	--	< 11 U	--	--	--
Thallium	ug/L	--	--	< 5.6 U	--	--	--	--	--	< 5.6 U	--	--	--
Zinc	ug/L	--	--	**870**	--	--	**62.3**	**20**	**53**	**72**	--	**53**	--
Metals, Dissolved													
Arsenic	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Copper	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Lead	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Zinc	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Butyl Tins													
Dibutyltin Ion	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Monobutyltin	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Tetrabutyltin	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Tributyltin Ion	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Polychlorinated Biphenyl (PCB) Aroclors													
Total PCB Aroclors (ND = 0)	ug/L	< 0.048 U	< 0.048 U	< 0.051 U	< 0.049 U	< 0.0994 U	--	< 0.05 U	< 0.047 U	< 0.048 U	< 0.048 U	--	< 0.047 U
Polychlorinated Biphenyl (PCB) Congeners													
Total PCB Congeners (ND = 0)	ug/L	**6.35E-03 J**	**5.56E-03 J**	**2.84E-02 J**	**1.06E-02 J**	**3.23E-04 J**	--	**8.14E-04 J**	**1.05E-03 J**	**1.79E-03 J**	**1.53E-03 J**	--	**3.62E-03 J**
Total PCB TEQ (ND = 0)	ug/L	**7.22E-07 J**	**5.16E-07 J**	**3.24E-06 J**	**1.08E-06 J**	**1.00E-010 J**	--	**7.84E-08 J**	**8.41E-08 J**	**1.37E-07 J**	**1.4E-09 J**	--	**3.62E-07 J**
Dioxins/Furans													
Total Dioxin/Furan TEQ (ND = 1/2 RL	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
2,3,7,8-TCDD	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)													
1-Methylnaphthalene	ug/L	--	--	< 0.099 U	--	--	--	--	--	< 0.094 U	--	--	--
2-Methylnaphthalene	ug/L	--	--	< 0.099 U	--	--	--	--	--	**0.17**	--	--	--
Acenaphthene	ug/L	--	--	< 0.099 U	--	--	--	--	--	< 0.094 U	--	--	--
Acenaphthylene	ug/L	--	--	< 0.099 U	--	--	--	--	--	< 0.094 U	--	--	--
Anthracene	ug/L	--	--	< 0.099 U	--	--	--	--	--	< 0.094 U	--	--	--
Benzo(g,h,i)perylene	ug/L	--	--	**0.021**	--	--	--	--	--	< 0.0094 U	--	--	--
Fluoranthene	ug/L	--	--	**0.1**	--	--	--	--	--	< 0.094 U	--	--	--
Fluorene	ug/L	--	--	< 0.099 U	--	--	--	--	--	< 0.094 U	--	--	--
Naphthalene	ug/L	--	--	< 0.099 U	--	--	--	--	--	< 0.094 U	--	--	--
Phenanthrene	ug/L	--	--	< 0.099 U	--	--	--	--	--	< 0.094 U	--	--	--
Pyrene	ug/L	--	--	< 0.099 U	--	--	--	--	--	< 0.094 U	--	--	--
Benz(a)anthracene	ug/L	--	--	**0.017**	--	--	--	--	--	< 0.0094 U	--	--	--
Benzo(a)pyrene	ug/L	--	--	**0.016**	--	--	--	--	--	< 0.0094 U	--	--	--
Benzo(b)fluoranthene	ug/L	--	--	**0.042**	--	--	--	--	--	< 0.0094 U	--	--	--
Benzo(j)fluoranthene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(j,k)fluoranthene	ug/L	--	--	**0.011**	--	--	--	--	--	< 0.0094 U	--	--	--
Benzo(k)fluoranthene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene	ug/L	--	--	**0.05**	--	--	--	--	--	< 0.0094 U	--	--	--
Dibenzo(a,h)anthracene	ug/L	--	--	< 0.0099 U	--	--	--	--	--	< 0.0094 U	--	--	--
Indeno(1,2,3-cd)pyrene	ug/L	--	--	**0.02**	--	--	--	--	--	< 0.0094 U	--	--	--
Total Benzofluoranthenes	ug/L	--	--	**0.053**	--	--	--	--	--	< 0.0094 U	--	--	--
Total HPAHs (ND = 1/2 RDL)	ug/L	--	--	**0.331**	--	--	--	--	--	< 0.094 U	--	--	--
Total LPAHs (ND = 1/2 RDL)	ug/L	--	--	< 0.099 U	--	--	--	--	--	< 0.094 U	--	--	--
Total cPAHs TEQ (ND = 1/2 RDL)	ug/L	--	--	**0.026**	--	--	--	--	--	< 0.0071 U	--	--	--
Semivolatile Organic Compounds (SVOCs)													
1,2-Dinitrobenzene	ug/L	--	--	< 0.99 U	--	--	--	--	--	< 0.94 U	--	--	--
1,2-Diphenylhydrazine	ug/L	--	--	< 0.99 U	--	--	--	--	--	< 0.94 U	--	--	--
1,3-Dinitrobenzene	ug/L	--	--	< 0.99 U	--	--	--	--	--	< 0.94 U	--	--	--
1,4-Dinitrobenzene	ug/L	--	--	< 0.99 U	--	--	--	--	--	< 0.94 U	--	--	--
2,3,4,6-Tetrachlorophenol	ug/L	--	--	< 0.99 U	--	--	--	--	--	< 0.94 U	--	--	--
2,3,5,6-Tetrachlorophenol	ug/L	--	--	< 0.99 U	--	--	--	--	--	< 0.94 U	--	--	--
2,3-Dichloroaniline	ug/L	--	--	< 0.99 U	--	--	--	--	--	< 0.94 U	--	--	--
2,4,5-Trichlorophenol	ug/L	--	--	< 0.99 U	--	--	--	--	--	< 0.94 U	--	--	--
2,4,6-Trichlorophenol	ug/L	--	--	< 0.99 U	--	--	--	--	--	< 0.94 U	--	--	--
2,4-Dichlorophenol	ug/L	--	--	< 0.99 U	--	--	--	--	--	< 0.94 U	--	--	--
2,4-Dimethylphenol	ug/L	--	--	< 0.99 U	--	--	--	--	--	< 0.94 U	--	--	--
2,4-Dinitrophenol	ug/L	--	--	< 4.9 U	--	--	--	--	--	< 4.7 U	--	--	--
2,4-Dinitrotoluene	ug/L	--	--	< 0.99 U	--	--	--	--	--	< 0.94 U	--	--	--
2,6-Dinitrotoluene	ug/L	--	--	< 0.99 U	--	--	--	--	--	< 0.94 U	--	--	--
2-Chloronaphthalene	ug/L	--	--	< 0.99 U	--	--	--	--	--	< 0.94 U	--	--	--
2-Chlorophenol	ug/L	--	--	< 0.99 U	--	--	--	--	--	< 0.94 U	--	--	--
2-Methylphenol	ug/L	--	--	< 0.99 U	--	--	--	--	--	< 0.94 U	--	--	--
2-Nitroaniline	ug/L	--	--	< 0.99 U	--	--	--	--	--	< 0.94 U	--	--	--
2-Nitrophenol	ug/L	--	--	< 0.99 U	--	--	--	--	--	< 0.94 U	--	--	--
3 & 4 Methylphenol	ug/L	--	--	< 0.99 U	--	--	--	--	--	< 0.94 U	--	--	--
3,3'-Dichlorobenzidine	ug/L	--	--	< 0.99 U	--	--	--	--	--	< 0.94 U	--	--	--
3-Nitroaniline	ug/L	--	--	< 0.99 U	--	--	--	--	--	< 0.94 U	--	--	--
4,6-Dinitro-2-methylphenol	ug/L	--	--	< 4.9 U	--	--	--	--	--	< 4.7 U	--	--	--
4-Bromophenyl phenyl ether	ug/L	--	--	< 0.99 U	--	--	--	--	--	< 0.94 U	--	--	--
4-Chloro-3-methylphenol	ug/L	--	--	< 0.99 U	--	--	--	--	--	< 0.94 U	--	--	--
4-Chloroaniline	ug/L	--	--	< 0.99 U	--	--	--	--	--	< 0.94 U	--	--	--
4-Chlorophenyl phenyl ether	ug/L	--	--	< 0.99 U	--	--	--	--	--	< 0.94 U	--	--	--
4-Methylphenol	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
4-Nitroaniline	ug/L	--	--	< 0.99 U	--	--	--	--	--	< 0.94 U	--	--	--
4-Nitrophenol	ug/L	--	--	< 4.9 U	--	--	--	--	--	< 4.7 U	--	--	--
Aniline	ug/L	--	--	< 4.9 U	--	--	--	--	--	< 4.7 U	--	--	--
Benzidine	ug/L	--	--	< 4.9 U	--	--	--	--	--	< 4.7 U	--	--	--
Benzoic acid	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Benzyl alcohol	ug/L	--	--	**1.1**	--	--	--	--	--	< 0.94 U	--	--	--
Benzyl butyl phthalate	ug/L	--	--	< 0.99 U	--	--	--	--	--	< 0.94 U	--	--	--
Bis(2-chloro-1-methylethyl) ether	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	ug/L	--	--	< 0.99 U	--	--	--	--	--	< 0.94 U	--	--	--
Bis(2-chloroethyl) ether	ug/L	--	--	< 0.99 U	--	--	--	--	--	< 0.94 U	--	--	--
bis(2-Chloroisopropyl)ether	ug/L	--	--	< 0.99 U	--	--	--	--	--	< 0.94 U	--	--	--
Bis(2-ethylhexyl) adipate	ug/L	--	--	< 0.99 U	--	--	--	--	--	< 0.94 U	--	--	--
Bis(2-ethylhexyl) phthalate	ug/L	--	--	**2.9**	--	--	--	--	--	< 0.94 U	--	--	--
Carbazole	ug/L	--	--	< 0.99 U	--	--	--	--	--	< 0.94 U	--	--	--
Dibenzofuran	ug/L	--	--	< 0.99 U	--	--	--	--	--	< 0.94 U	--	--	--
Diethyl phthalate	ug/L	--	--	< 0.99 U	--	--	--	--	--	< 0.94 U	--	--	--
Dimethyl phthalate	ug/L	--	--	**1**	--	--	--	--	--	< 0.94 U	--	--	--
Di-n-butyl phthalate	ug/L	--	--	< 0.99 U	--	--	--	--	--	< 0.94 U	--	--	--
Di-n-octyl phthalate	ug/L	--	--	< 0.99 U	--	--	--	--	--	< 0.94 U	--	--	--
Hexachlorobenzene	ug/L	--	--	< 0.99 U	--	--	--	--	--	< 0.94 U	--	--	--
Hexachlorobutadiene	ug/L	--	--	< 0.99 U	--	--	--	--	--	< 0.94 U	--	--	--
Hexachlorocyclopentadiene	ug/L	--	--	< 0.99 U	--	--	--	--	--	< 0.94 U	--	--	--
Hexachloroethane	ug/L	--	--	< 0.99 U	--	--	--	--	--	< 0.94 U	--	--	--
Isophorone	ug/L	--	--	< 0.99 U	--	--	--	--	--	< 0.94 U	--	--	--
Nitrobenzene	ug/L	--	--	< 0.99 U	--	--	--	--	--	< 0.94 U	--	--	--
N-Nitrosodimethylamine	ug/L	--	--	< 0.99 U	--	--	--	--	--	< 0.94 U	--	--	--
N-Nitroso-di-n-propylamine	ug/L	--	--	< 0.99 U	--	--	--	--	--	< 0.94 U	--	--	--
N-Nitrosodiphenylamine	ug/L	--	--	< 0.99 U	--	--	--	--	--	< 0.94 U	--	--	--
Pentachlorophenol	ug/L	--	--	< 4.9 U	--	--	--	--	--	< 4.7 U	--	--	--
Perylene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Phenol	ug/L	--	--	< 0.99 U	--	--	--	--	--	< 0.94 U	--	--	--
Pyridine	ug/L	--	--	< 0.99 U	--	--	--	--	--	< 0.94 U	--	--	--

Table I.3.E - Stormwater Analytical Results

South Park Marina Site, Seattle, Washington

Location		SWRX-MID				SWRX-POST							
Date		04/12/2017	05/16/2017	06/08/2017	09/19/2017	12/01/2016	01/01/2017	04/12/2017	05/16/2017	06/08/2017	09/19/2017	10/18/2017	10/18/2017
Sample		SPM-SWRX-MID-SW-20170412	SPM-SWRX-MID-SW-20170516	SPM-SWRX-MID-SW-20170608	SPM-SWRX-MID-SW-20170919	SPM-SWRX-POST-SW-20161201	SPM-SWRX-POST-SW-20170101	SPM-SWRX-POST-SW-20170412	SPM-SWRX-POST-SW-20170516	SPM-SWRX-POST-SW-20170608	SPM-SWRX-POST-SW-20170919	SPM-NPDES-SW-20171018	SPM-SWRX-POST-SW-20171018
Analyte	**Unit**												
Pesticides													
4,4'-DDD	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
4,4'-DDE	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
4,4'-DDT	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Aldrin	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Alpha-BHC	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Beta-BHC	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
cis-Chlordane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Delta-BHC	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Dieldrin	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Endosulfan I	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Endosulfan II	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Endosulfan Sulfate	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Endrin	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Endrin Aldehyde	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Endrin ketone	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Heptachlor	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Heptachlor Epoxide	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Lindane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Methoxychlor	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Toxaphene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
trans-Chlordane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Total Petroleum Hydrocarbons (TPH)													
Gasoline Range Organics	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Diesel Range Organics	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Motor Oil Range Organics	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Diesel + Oil Extended Range Organi	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Benzene, Toluene, Ethylbenzene, Xylenes (													
Benzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Total Xylenes	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds (VOCs)													
1,1,1,2-Tetrachloroethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	ug/L	--	--	< 0.99 U	--	--	--	--	--	< 0.94 U	--	--	--
1,2,4-Trimethylbenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	ug/L	--	--	< 0.99 U	--	--	--	--	--	< 0.94 U	--	--	--
1,2-Dichloroethane (EDC)	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	ug/L	--	--	< 0.99 U	--	--	--	--	--	< 0.94 U	--	--	--
1,3-Dichloropropane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	ug/L	--	--	< 0.99 U	--	--	--	--	--	< 0.94 U	--	--	--
1-Chloropropane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl Vinyl Ether	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene (DCE)	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
m,p-Xylenes	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Methyliodide	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
o-Xylene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Acetate	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Conventionals													
Total Organic Carbon	ug/L	--	--	**21000**	--	--	--	--	--	**1500**	--	--	--
Total Suspended Solids	mg/L	--	--	**14**	--	--	--	--	--	< 4 U	--	--	--
Field Parameters													
Temperature	deg C	--	--	**18.8**	--	--	--	--	--	**17.7**	--	--	--
Specific Conductance	umhos/cm	--	--	**78**	--	--	--	--	--	**74**	--	--	--
Dissolved Oxygen	mg/L	--	--	**3.35**	--	--	--	--	--	**0.46**	--	--	--
pH	pH units	--	--	**6.68**	--	--	--	--	--	**6.12**	--	--	--
Oxidation Reduction Potential	mV	--	--	**108**	--	--	--	--	--	**123**	--	--	--
Turbidity	NTU	--	--	**19.7**	--	--	--	--	--	**3.4**	--	--	--

Table I.3.E - Stormwater Analytical Results

South Park Marina Site, Seattle, Washington

Location		SWRX-POST (Continued)												
Date		11/03/2017	11/03/2017	01/05/2018	01/23/2018	04/10/2018	10/05/2018	11/02/2018	01/03/2019	04/05/2019	05/14/2019	10/16/2019	12/12/2019	01/10/2020
Sample		SPM-NPDES-SW-20171103	SPM-SWRX-POST-SW-20171103	SPM-NPDES-SW-20180105	SPM-NPDES-SW-20180123	SPM-NPDES-SW-20180410	SPM-NPDES-SW-20181005	SPM-NPDES-SW-20181102	SPM-NPDES-SW-20190103	SPM-NPDES-SW-20190405	SPM-NPDES-SW-20190514	SPM-NPDES-SW-20191016	SPM-NPDES-SW-20191212	SPM-NPDES-SW-20200110
Analyte	**Unit**													
Metals, Total														
Antimony	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Copper	ug/L	**13**	--	**7**	**6.2**	**7.3**	**14**	**3.1**	**4.2**	**44**	**150**	**15**	**5.2**	**6.8**
Lead	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Silver	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Zinc	ug/L	**72**	--	**300**	**110**	**28**	**27**	**9.8**	**9.8**	**17**	**36**	**28**	**18**	**18**
Metals, Dissolved														
Arsenic	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Copper	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Zinc	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Butyl Tins														
Dibutyltin Ion	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Monobutyltin	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrabutyltin	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Tributyltin Ion	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Polychlorinated Biphenyl (PCB) Aroclors														
Total PCB Aroclors (ND = 0)	ug/L	--	< 0.048 U	--	--	--	--	--	--	--	--	--	--	--
Polychlorinated Biphenyl (PCB) Congeners														
Total PCB Congeners (ND = 0)	ug/L	--	**9.24E-04 J**	--	--	--	--	--	--	--	--	--	--	--
Total PCB TEQ (ND = 0)	ug/L	--	**1.03E-09 J**	--	--	--	--	--	--	--	--	--	--	--
Dioxins/Furans														
Total Dioxin/Furan TEQ (ND = 1/2 RL	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
2,3,7,8-TCDD	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)														
1-Methylnaphthalene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Benz(a)anthracene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(j)fluoranthene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(j,k)fluoranthene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Benzofluoranthenes	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Total HPAHs (ND = 1/2 RDL)	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Total LPAHs (ND = 1/2 RDL)	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Total cPAHs TEQ (ND = 1/2 RDL)	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Semivolatile Organic Compounds (SVOCs)														
1,2-Dinitrobenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dinitrobenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dinitrobenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
2,3,5,6-Tetrachlorophenol	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
2,3-Dichloroaniline	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4,6-Trichlorophenol	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4-Dichlorophenol	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4-Dinitrophenol	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4-Dinitrotoluene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
2,6-Dinitrotoluene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chloronaphthalene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorophenol	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylphenol	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Nitroaniline	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Nitrophenol	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
3 & 4 Methylphenol	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
3-Nitroaniline	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
4,6-Dinitro-2-methylphenol	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Bromophenyl phenyl ether	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chloro-3-methylphenol	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chloroaniline	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorophenyl phenyl ether	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methylphenol	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Nitroaniline	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Nitrophenol	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Aniline	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzidine	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzoic acid	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzyl alcohol	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzyl butyl phthalate	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Bis(2-chloro-1-methylethyl) ether	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Bis(2-chloroethyl) ether	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
bis(2-Chloroisopropyl)ether	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) adipate	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbazole	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzofuran	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Diethyl phthalate	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Dimethyl phthalate	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-n-butyl phthalate	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-n-octyl phthalate	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachloroethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Isophorone	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrobenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitroso-di-n-propylamine	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Pentachlorophenol	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Perylene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Phenol	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Pyridine	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--

Table I.3.E - Stormwater Analytical Results

South Park Marina Site, Seattle, Washington

Location		SWRX-POST (Continued)												
Date		11/03/2017	11/03/2017	01/05/2018	01/23/2018	04/10/2018	10/05/2018	11/02/2018	01/03/2019	04/05/2019	05/14/2019	10/16/2019	12/12/2019	01/10/2020
Sample		SPM-NPDES-SW-20171103	SPM-SWRX-POST-SW-20171103	SPM-NPDES-SW-20180105	SPM-NPDES-SW-20180123	SPM-NPDES-SW-20180410	SPM-NPDES-SW-20181005	SPM-NPDES-SW-20181102	SPM-NPDES-SW-20190103	SPM-NPDES-SW-20190405	SPM-NPDES-SW-20190514	SPM-NPDES-SW-20191016	SPM-NPDES-SW-20191212	SPM-NPDES-SW-20200110
Analyte	**Unit**													
Pesticides														
4,4'-DDD	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
4,4'-DDE	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
4,4'-DDT	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Aldrin	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Alpha-BHC	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Beta-BHC	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-Chlordane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Delta-BHC	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Dieldrin	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Endosulfan I	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Endosulfan II	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Endosulfan Sulfate	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Endrin	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Endrin Aldehyde	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Endrin ketone	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Heptachlor	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Heptachlor Epoxide	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Lindane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Methoxychlor	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Toxaphene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-Chlordane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Petroleum Hydrocarbons (TPH)														
Gasoline Range Organics	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Diesel Range Organics	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Motor Oil Range Organics	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Diesel + Oil Extended Range Organi	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene, Toluene, Ethylbenzene, Xylenes (														
Benzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Xylenes	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds (VOCs)														
1,1,1,2-Tetrachloroethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane (EDC)	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
1-Chloropropane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl Vinyl Ether	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene (DCE)	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
m,p-Xylenes	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyliodide	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
o-Xylene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Acetate	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Conventionals														
Total Organic Carbon	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Field Parameters														
Temperature	deg C	--	--	--	--	--	--	--	--	--	--	--	--	--
Specific Conductance	umhos/cm	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--
pH	pH units	--	--	--	--	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	--	--	--	--	--
Turbidity	NTU	--	--	--	--	--	--	--	--	--	--	--	--	--

Table I.3.E - Stormwater Analytical Results

South Park Marina Site, Seattle, Washington

Location		SWRX-POST (Continued)											
Date		04/22/2020	05/17/2020	10/10/2020	11/03/2020	01/28/2021	04/24/2021	05/27/2021	10/25/2022	11/04/2022	11/22/2022	11/22/2022	01/12/2023
Sample		SPM-SWRX-POST-SW-20200422	SPM-NPDES-SW-20200517	SPM-NPDES-SW-20201010	SPM-NPDES-SW-20201103	SPM-NPDES-SW-20210128	SPM-NPDES-SW-20210424	SPM-NPDES-SW-20210527	SPM-NPDES-SW-221025-TIG	SPM-NPDES-SW-221104-TIG	SWRX-POST-SW-221122	SPM-SWRX-POST-R001-20221122-TIG	SPM-NPDES-SW-230112-TIG
Analyte	**Unit**												
Metals, Total													
Antimony	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic	ug/L	--	--	--	--	--	--	--	--	--	< 0.5 U	--	--
Beryllium	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	ug/L	--	--	--	--	--	--	--	--	--	< 0.2 U	--	--
Chromium	ug/L	--	--	--	--	--	--	--	--	--	**1.3 J**	--	--
Copper	ug/L	**58**	**8.3**	**9.2**	**18**	**7.4**	**130**	**34**	**1500**	**6.9**	**17.7**	**14**	**7.1**
Lead	ug/L	--	--	--	--	--	**3.4**	**0.86**	--	--	**1.8**	--	--
Mercury	ug/L	--	--	--	--	--	--	--	--	--	**0.0026**	--	--
Nickel	ug/L	--	--	--	--	--	--	--	--	--	**1.02**	--	--
Selenium	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Silver	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Zinc	ug/L	**34**	**31**	**27**	**18**	**26**	**98**	**74**	**770**	**11**	**11.3**	**12**	**46**
Metals, Dissolved													
Arsenic	ug/L	--	--	--	--	--	--	--	--	--	< 0.5 U	--	--
Cadmium	ug/L	--	--	--	--	--	--	--	--	--	< 0.2 U	--	--
Chromium	ug/L	--	--	--	--	--	--	--	--	--	< 1 U	--	--
Copper	ug/L	--	--	--	--	--	--	--	--	--	**10.8**	**8**	--
Lead	ug/L	--	--	--	--	--	--	--	--	--	**0.412**	--	--
Mercury	ug/L	--	--	--	--	--	--	--	--	--	< 0.0008 U	--	--
Nickel	ug/L	--	--	--	--	--	--	--	--	--	**1.06 J**	--	--
Zinc	ug/L	--	--	--	--	--	--	--	--	--	**10.9**	**12**	--
Butyl Tins													
Dibutyltin Ion	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Monobutyltin	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Tetrabutyltin	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Tributyltin Ion	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Polychlorinated Biphenyl (PCB) Aroclors													
Total PCB Aroclors (ND = 0)	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Polychlorinated Biphenyl (PCB) Congeners													
Total PCB Congeners (ND = 0)	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Total PCB TEQ (ND = 0)	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Dioxins/Furans													
Total Dioxin/Furan TEQ (ND = 1/2 RL	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
2,3,7,8-TCDD	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)													
1-Methylnaphthalene	ug/L	--	--	--	--	--	--	--	--	--	< 0.1 U	--	--
2-Methylnaphthalene	ug/L	--	--	--	--	--	--	--	--	--	< 0.1 U	--	--
Acenaphthene	ug/L	--	--	--	--	--	--	--	--	--	< 0.01 U	--	--
Acenaphthylene	ug/L	--	--	--	--	--	--	--	--	--	< 0.01 U	--	--
Anthracene	ug/L	--	--	--	--	--	--	--	--	--	< 0.01 U	--	--
Benzo(g,h,i)perylene	ug/L	--	--	--	--	--	--	--	--	--	< 0.02 U	--	--
Fluoranthene	ug/L	--	--	--	--	--	--	--	--	--	< 0.01 U	--	--
Fluorene	ug/L	--	--	--	--	--	--	--	--	--	< 0.01 U	--	--
Naphthalene	ug/L	--	--	--	--	--	--	--	--	--	< 0.1 U	--	--
Phenanthrene	ug/L	--	--	--	--	--	--	--	--	--	< 0.01 U	--	--
Pyrene	ug/L	--	--	--	--	--	--	--	--	--	< 0.01 U	--	--
Benz(a)anthracene	ug/L	--	--	--	--	--	--	--	--	--	< 0.01 U	--	--
Benzo(a)pyrene	ug/L	--	--	--	--	--	--	--	--	--	< 0.01 U	--	--
Benzo(b)fluoranthene	ug/L	--	--	--	--	--	--	--	--	--	< 0.01 U	--	--
Benzo(j)fluoranthene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(j,k)fluoranthene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	ug/L	--	--	--	--	--	--	--	--	--	< 0.01 U	--	--
Chrysene	ug/L	--	--	--	--	--	--	--	--	--	< 0.01 U	--	--
Dibenzo(a,h)anthracene	ug/L	--	--	--	--	--	--	--	--	--	< 0.01 U	--	--
Indeno(1,2,3-cd)pyrene	ug/L	--	--	--	--	--	--	--	--	--	< 0.01 U	--	--
Total Benzofluoranthenes	ug/L	--	--	--	--	--	--	--	--	--	< 0.01 U	--	--
Total HPAHs (ND = 1/2 RDL)	ug/L	--	--	--	--	--	--	--	--	--	< 0.02 U	--	--
Total LPAHs (ND = 1/2 RDL)	ug/L	--	--	--	--	--	--	--	--	--	< 0.1 U	--	--
Total cPAHs TEQ (ND = 1/2 RDL)	ug/L	--	--	--	--	--	--	--	--	--	< 0.00755 U	--	--
Semivolatile Organic Compounds (SVOCs)													
1,2-Dinitrobenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	ug/L	--	--	--	--	--	--	--	--	--	< 0.1 U	--	--
1,3-Dinitrobenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dinitrobenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
2,3,5,6-Tetrachlorophenol	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
2,3-Dichloroaniline	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	ug/L	--	--	--	--	--	--	--	--	--	< 1 U	--	--
2,4,6-Trichlorophenol	ug/L	--	--	--	--	--	--	--	--	--	< 1 U	--	--
2,4-Dichlorophenol	ug/L	--	--	--	--	--	--	--	--	--	< 1 U	--	--
2,4-Dimethylphenol	ug/L	--	--	--	--	--	--	--	--	--	< 1 R	--	--
2,4-Dinitrophenol	ug/L	--	--	--	--	--	--	--	--	--	< 3 U	--	--
2,4-Dinitrotoluene	ug/L	--	--	--	--	--	--	--	--	--	< 0.5 U	--	--
2,6-Dinitrotoluene	ug/L	--	--	--	--	--	--	--	--	--	< 0.5 U	--	--
2-Chloronaphthalene	ug/L	--	--	--	--	--	--	--	--	--	< 0.1 U	--	--
2-Chlorophenol	ug/L	--	--	--	--	--	--	--	--	--	< 1 U	--	--
2-Methylphenol	ug/L	--	--	--	--	--	--	--	--	--	< 1 U	--	--
2-Nitroaniline	ug/L	--	--	--	--	--	--	--	--	--	< 0.5 U	--	--
2-Nitrophenol	ug/L	--	--	--	--	--	--	--	--	--	< 1 U	--	--
3 & 4 Methylphenol	ug/L	--	--	--	--	--	--	--	--	--	< 2 U	--	--
3,3'-Dichlorobenzidine	ug/L	--	--	--	--	--	--	--	--	--	< 1 U	--	--
3-Nitroaniline	ug/L	--	--	--	--	--	--	--	--	--	< 10 U	--	--
4,6-Dinitro-2-methylphenol	ug/L	--	--	--	--	--	--	--	--	--	< 3 U	--	--
4-Bromophenyl phenyl ether	ug/L	--	--	--	--	--	--	--	--	--	< 0.1 U	--	--
4-Chloro-3-methylphenol	ug/L	--	--	--	--	--	--	--	--	--	< 1 U	--	--
4-Chloroaniline	ug/L	--	--	--	--	--	--	--	--	--	< 10 U	--	--
4-Chlorophenyl phenyl ether	ug/L	--	--	--	--	--	--	--	--	--	< 0.1 U	--	--
4-Methylphenol	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
4-Nitroaniline	ug/L	--	--	--	--	--	--	--	--	--	< 10 U	--	--
4-Nitrophenol	ug/L	--	--	--	--	--	--	--	--	--	< 3 U	--	--
Aniline	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Benzidine	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Benzoic acid	ug/L	--	--	--	--	--	--	--	--	--	< 5 U	--	--
Benzyl alcohol	ug/L	--	--	--	--	--	--	--	--	--	< 1 U	--	--
Benzyl butyl phthalate	ug/L	--	--	--	--	--	--	--	--	--	< 1 U	--	--
Bis(2-chloro-1-methylethyl) ether	ug/L	--	--	--	--	--	--	--	--	--	< 0.1 U	--	--
Bis(2-chloroethoxy)methane	ug/L	--	--	--	--	--	--	--	--	--	< 0.1 U	--	--
Bis(2-chloroethyl) ether	ug/L	--	--	--	--	--	--	--	--	--	< 0.1 U	--	--
bis(2-Chloroisopropyl)ether	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) adipate	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate	ug/L	--	--	--	--	--	--	--	--	--	< 1.6 U	--	--
Carbazole	ug/L	--	--	--	--	--	--	--	--	--	< 0.1 U	--	--
Dibenzofuran	ug/L	--	--	--	--	--	--	--	--	--	< 0.1 U	--	--
Diethyl phthalate	ug/L	--	--	--	--	--	--	--	--	--	< 1 U	--	--
Dimethyl phthalate	ug/L	--	--	--	--	--	--	--	--	--	< 1 U	--	--
Di-n-butyl phthalate	ug/L	--	--	--	--	--	--	--	--	--	< 1 U	--	--
Di-n-octyl phthalate	ug/L	--	--	--	--	--	--	--	--	--	< 1 U	--	--
Hexachlorobenzene	ug/L	--	--	--	--	--	--	--	--	--	< 0.1 U	--	--
Hexachlorobutadiene	ug/L	--	--	--	--	--	--	--	--	--	< 0.1 U	--	--
Hexachlorocyclopentadiene	ug/L	--	--	--	--	--	--	--	--	--	< 0.3 U	--	--
Hexachloroethane	ug/L	--	--	--	--	--	--	--	--	--	< 0.1 U	--	--
Isophorone	ug/L	--	--	--	--	--	--	--	--	--	< 0.1 U	--	--
Nitrobenzene	ug/L	--	--	--	--	--	--	--	--	--	< 0.1 U	--	--
N-Nitrosodimethylamine	ug/L	--	--	--	--	--	--	--	--	--	< 0.1 U	--	--
N-Nitroso-di-n-propylamine	ug/L	--	--	--	--	--	--	--	--	--	< 0.1 U	--	--
N-Nitrosodiphenylamine	ug/L	--	--	--	--	--	--	--	--	--	< 0.1 U	--	--
Pentachlorophenol	ug/L	--	--	--	--	--	--	--	--	--	< 0.5 U	--	--
Perylene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Phenol	ug/L	--	--	--	--	--	--	--	--	--	< 1 U	--	--
Pyridine	ug/L	--	--	--	--	--	--	--	--	--	--	--	--

Table I.3.E - Stormwater Analytical Results

South Park Marina Site, Seattle, Washington

Location		SWRX-POST (Continued)											
Date		04/22/2020	05/17/2020	10/10/2020	11/03/2020	01/28/2021	04/24/2021	05/27/2021	10/25/2022	11/04/2022	11/22/2022	11/22/2022	01/12/2023
Sample		SPM-SWRX-POST-SW-20200422	SPM-NPDES-SW-20200517	SPM-NPDES-SW-20201010	SPM-NPDES-SW-20201103	SPM-NPDES-SW-20210128	SPM-NPDES-SW-20210424	SPM-NPDES-SW-20210527	SPM-NPDES-SW-221025-TIG	SPM-NPDES-SW-221104-TIG	SWRX-POST-SW-221122	SPM-SWRX-POST-R001-20221122-TIG	SPM-NPDES-SW-230112-TIG
Analyte	**Unit**												
Pesticides													
4,4'-DDD	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
4,4'-DDE	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
4,4'-DDT	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Aldrin	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Alpha-BHC	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Beta-BHC	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
cis-Chlordane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Delta-BHC	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Dieldrin	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Endosulfan I	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Endosulfan II	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Endosulfan Sulfate	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Endrin	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Endrin Aldehyde	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Endrin ketone	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Heptachlor	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Heptachlor Epoxide	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Lindane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Methoxychlor	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Toxaphene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
trans-Chlordane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Total Petroleum Hydrocarbons (TPH)													
Gasoline Range Organics	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Diesel Range Organics	ug/L	--	--	--	--	--	--	--	**1500**	< 100 U	--	--	< 60 U
Motor Oil Range Organics	ug/L	--	--	--	--	--	--	--	**1700**	< 160 U	--	--	< 160 U
Diesel + Oil Extended Range Organi	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Benzene, Toluene, Ethylbenzene, Xylenes (													
Benzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Total Xylenes	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds (VOCs)													
1,1,1,2-Tetrachloroethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	ug/L	--	--	--	--	--	--	--	--	--	< 0.1 U	--	--
1,2,4-Trimethylbenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	ug/L	--	--	--	--	--	--	--	--	--	< 0.1 U	--	--
1,2-Dichloroethane (EDC)	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	ug/L	--	--	--	--	--	--	--	--	--	< 0.1 U	--	--
1,3-Dichloropropane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	ug/L	--	--	--	--	--	--	--	--	--	< 0.1 U	--	--
1-Chloropropane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl Vinyl Ether	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene (DCE)	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
m,p-Xylenes	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Methyliodide	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
o-Xylene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Acetate	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Conventionals													
Total Organic Carbon	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Total Suspended Solids	mg/L	--	--	--	--	--	< 4 U	< 4 U	**140**	< 4 U	< 5 U	< 4 U	< 4 U
Field Parameters													
Temperature	deg C	--	--	--	--	--	--	--	--	--	--	--	--
Specific Conductance	umhos/cm	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
pH	pH units	--	--	--	--	--	--	--	**7.3**	**6.1**	--	--	**6.7**
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	--	--	--	--
Turbidity	NTU	--	--	--	--	--	--	--	**84**	**1.4**	--	**2.3**	**0.41**

Table I.3.E - Stormwater Analytical Results

South Park Marina Site, Seattle, Washington

	Location	SWRX-POST (Cont'd)		SWRX-PRE												
	Date	03/02/2023	04/07/2023	10/08/2014	04/12/2017	05/16/2017	06/08/2017	09/19/2017	03/04/2021	05/27/2021	05/27/2021	09/02/2021	09/02/2021	11/22/2022	11/22/2022	11/22/2022
	Sample	SPM-NPDES-SW-230302-TIG	SPM-NPDES-SW-230407-TIG	SP-OWS-01 (WATER)	SPM-SWRX-PRE-0SW-20170412	SPM-SWRX-PRE-0SW-20170516	SPM-SWRX-PRE-0SW-20170608	SPM-SWRX-PRE-0SW-20170919	PRERX-SW-210304	PRERX-SW-210527	PRERX-SW-FD-210527	20210902SWRX-1-TIG	20210902SWRX-2-TIG	SWRX-PRE-SW-221122	SPM-PRE-VAULT-202211122-TIG	SPM-SWRX-PRE-0R001-20221122-TIG
Analyte	**Unit**															
Metals, Total																
Antimony	ug/L	--	--	**0.31 J**	--	--	< 5.6 U	--	--	--	--	--	--	--	--	--
Arsenic	ug/L	--	--	**2**	--	--	< 3.3 U	--	**6.95**	**7.89**	**7.13**	**34**	**0.70**	**2.13**	--	--
Beryllium	ug/L	--	--	< 0.4 U	--	--	< 11 U	--	--	--	--	--	--	--	--	--
Cadmium	ug/L	--	--	**0.27 J**	--	--	< 4.4 U	--	**1.22**	**0.631**	**0.617**	**4.0**	< 0.44 U	**0.265**	--	--
Chromium	ug/L	--	--	**0.52**	--	--	< 11 U	--	**2.5**	< 0.5 U	< 0.5 U	**42**	**1.2**	**1.21 J**	--	--
Copper	ug/L	**11**	< 5 U	**88**	--	--	**970**	--	**411**	**455**	**457**	**1000**	**60**	**127**	**730**	**210**
Lead	ug/L	--	--	**3.6**	--	--	**18**	--	**17**	**4.9**	**6.61**	**74**	**2.7**	**5.38**	--	--
Mercury	ug/L	--	--	< 0.2 U	--	--	< 0.5 U	--	**0.021**	**0.00703**	**0.00814**	--	--	**0.0088**	--	--
Nickel	ug/L	--	--	**1.3 J**	--	--	< 22 U	--	**5.27**	**2.97**	**2.88**	**15**	**4.4**	**4.14**	--	--
Selenium	ug/L	--	--	< 1 U	--	--	< 5.6 U	--	--	--	--	--	--	--	--	--
Silver	ug/L	--	--	< 0.4 U	--	--	< 11 U	--	--	--	--	--	--	--	--	--
Thallium	ug/L	--	--	< 1 U	--	--	< 5.6 U	--	--	--	--	--	--	--	--	--
Zinc	ug/L	**20**	**17.7**	**92**	--	--	**650**	--	**401**	**314**	**308**	**640**	**190**	**150**	**320**	**140**
Metals, Dissolved																
Arsenic	ug/L	--	--	--	--	--	--	--	**4.8 J**	**6.46**	**6.31**	--	--	**1.6**	--	--
Cadmium	ug/L	--	--	--	--	--	--	--	**0.944 J**	**0.319**	**0.324**	--	--	**0.221**	--	--
Chromium	ug/L	--	--	--	--	--	--	--	**1.47 J**	< 0.5 U	< 0.5 U	--	--	**0.691 J**	--	--
Copper	ug/L	--	--	--	--	--	--	--	**238 J**	**300**	**283**	--	--	**80.1**	**65**	**75**
Lead	ug/L	--	--	--	--	--	--	--	**4.65 J**	**0.997**	**0.958**	--	--	**0.778**	--	--
Mercury	ug/L	--	--	--	--	--	--	--	< 0.02 UJ	**0.00433**	**0.00459**	--	--	< 0.0008 U	--	--
Nickel	ug/L	--	--	--	--	--	--	--	**4.7 J**	**2.33**	**2.18**	--	--	**3.83**	--	--
Zinc	ug/L	--	--	--	--	--	--	--	**345 J**	**183**	**182**	--	--	**139**	**98**	**100**
Butyl Tins																
Dibutyltin Ion	ug/L	--	--	--	--	--	--	--	**0.0166**	**0.0218**	**0.0174**	--	--	--	--	--
Monobutyltin	ug/L	--	--	--	--	--	--	--	**0.029 J**	**0.0564**	**0.0531**	--	--	--	--	--
Tetrabutyltin	ug/L	--	--	--	--	--	--	--	--	< 0.03 U	< 0.03 U	--	--	--	--	--
Tributyltin Ion	ug/L	--	--	--	--	--	--	--	**0.0197**	**0.0174**	**0.0159**	--	--	--	--	--
Polychlorinated Biphenyl (PCB) Aroclors																
Total PCB Aroclors (ND = 0)	ug/L	--	--	--	< 0.054 U	< 0.047 U	< 0.047 U	< 0.048 U	**0.048**	**0.019 J**	**0.025 J**	< 0.098 U	< 0.048 U	--	--	--
Polychlorinated Biphenyl (PCB) Congeners																
Total PCB Congeners (ND = 0)	ug/L	--	--	**1.4E-02 J**	**1.37E-02 J**	**5.56E-03 J**	**2.26E-02 J**	**8.49E-03 J**	**6.54E-02 J**	**1.71E-02**	--	--	--	--	--	--
Total PCB TEQ (ND = 0)	ug/L	--	--	**6.35E-07**	**1.32E-06**	**5.22E-07 J**	**3.43E-06 J**	**8.55E-07 J**	**2.75E-06**	**2.80E-08**	--	--	--	--	--	--
Dioxins/Furans																
Total Dioxin/Furan TEQ (ND = 1/2 RL	ug/L	--	--	**7.03E-06 J**	--	--	--	--	--	--	--	--	--	--	--	--
2,3,7,8-TCDD	ug/L	--	--	1.63E-06 U	--	--	--	--	--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)																
1-Methylnaphthalene	ug/L	--	--	< 0.057 U	--	--	< 0.096 U	--	< 0.1 U	**0.028**	**0.026**	**5.2**	**0.18**	< 0.1 U	--	--
2-Methylnaphthalene	ug/L	--	--	**0.042 J**	--	--	< 0.096 U	--	< 0.1 U	< 0.01 U	< 0.01 U	**7.3**	**0.26**	< 0.1 U	--	--
Acenaphthene	ug/L	--	--	< 0.095 U	--	--	< 0.096 U	--	< 0.1 U	< 0.01 U	< 0.01 U	**1.4**	< 0.10 U	**0.015**	--	--
Acenaphthylene	ug/L	--	--	< 0.076 U	--	--	< 0.096 U	--	< 0.1 U	< 0.01 U	< 0.01 U	**8.0**	**0.24**	< 0.01 U	--	--
Anthracene	ug/L	--	--	< 0.038 U	--	--	< 0.096 U	--	< 0.1 U	< 0.01 U	< 0.01 U	**1.3**	< 0.10 U	< 0.01 U	--	--
Benzo(g,h,i)perylene	ug/L	--	--	< 0.057 UJ	--	--	**0.02**	--	< 0.1 U	**0.004 J**	**0.007 J**	**0.35**	**0.017**	**0.038**	--	--
Fluoranthene	ug/L	--	--	**0.1**	--	--	**0.13**	--	**0.02 J**	**0.022**	**0.03**	**3.0**	< 0.10 U	**0.1**	--	--
Fluorene	ug/L	--	--	**0.033 J**	--	--	< 0.096 U	--	< 0.1 U	**0.004 J**	**0.003 J**	**2.7**	< 0.10 U	**0.011**	--	--
Naphthalene	ug/L	--	--	< 0.38 U	--	--	< 0.096 U	--	< 0.1 U	< 0.01 U	< 0.01 U	**40 J**	**0.76**	< 0.1 U	--	--
Phenanthrene	ug/L	--	--	**0.11**	--	--	< 0.096 U	--	< 0.1 U	**0.007 J**	**0.01**	**6.8**	< 0.10 U	**0.06**	--	--
Pyrene	ug/L	--	--	**0.061**	--	--	< 0.096 U	--	< 0.1 U	**0.016**	**0.022**	**3.0**	< 0.10 U	**0.099**	--	--
Benz(a)anthracene	ug/L	--	--	< 0.057 U	--	--	**0.029**	--	< 0.1 U	**0.002 J**	**0.004 J**	**0.65**	< 0.010 U	**0.029**	--	--
Benzo(a)pyrene	ug/L	--	--	< 0.038 U	--	--	**0.017**	--	< 0.1 U	< 0.01 U	**0.004 J**	**0.46**	**0.014**	**0.04**	--	--
Benzo(b)fluoranthene	ug/L	--	--	**0.033 J**	--	--	**0.052**	--	< 0.1 U	**0.007 J**	**0.012**	**0.69**	**0.014**	**0.082**	--	--
Benzo(j)fluoranthene	ug/L	--	--	--	--	--	--	--	< 0.1 U	< 0.01 U	**0.003 J**	--	--	--	--	--
Benzo(j,k)fluoranthene	ug/L	--	--	--	--	--	**0.01**	--	--	--	--	**0.19**	< 0.010 U	--	--	--
Benzo(k)fluoranthene	ug/L	--	--	< 0.057 U	--	--	--	--	< 0.1 U	< 0.01 U	**0.004 J**	--	--	**0.02**	--	--
Chrysene	ug/L	--	--	**0.039**	--	--	**0.072**	--	< 0.1 U	**0.012**	**0.017**	**0.71**	< 0.010 U	**0.062**	--	--
Dibenzo(a,h)anthracene	ug/L	--	--	< 0.057 U	--	--	< 0.0096 U	--	< 0.1 U	< 0.01 UJ	< 0.01 UJ	**0.11**	< 0.010 U	< 0.01 U	--	--
Indeno(1,2,3-cd)pyrene	ug/L	--	--	< 0.057 UJ	--	--	**0.019**	--	< 0.1 U	**0.002 J**	**0.005 J**	**0.35**	**0.015**	**0.039**	--	--
Total Benzofluoranthenes	ug/L	--	--	**0.033 J**	--	--	**0.062**	--	< 0.2 U	**0.011**	**0.019**	**0.88**	**0.014**	**0.102**	--	--
Total HPAHs (ND = 1/2 RDL)	ug/L	--	--	**0.395 J**	--	--	**0.402**	--	**0.52 J**	**0.085 J**	**0.113 J**	**9.51**	**0.18**	**0.514**	--	--
Total LPAHs (ND = 1/2 RDL)	ug/L	--	--	**0.438 J**	--	--	< 0.096 U	--	< 0.1 U	**0.031 J**	**0.033 J**	**60.2 J**	**1.2**	**0.146**	--	--
Total cPAHs TEQ (ND = 1/2 RDL)	ug/L	--	--	**0.0341 J**	--	--	**0.0292**	--	< 0.0755 U	**0.00722 J**	**0.00717 J**	**0.666**	**0.0185**	**0.0581**	--	--
Semivolatile Organic Compounds (SVOCs)																
1,2-Dinitrobenzene	ug/L	--	--	--	--	--	< 0.96 U	--	--	--	--	< 4.9 U	< 1.0 U	--	--	--
1,2-Diphenylhydrazine	ug/L	--	--	--	--	--	< 0.96 U	--	--	--	--	< 34 U	< 1.0 U	< 0.1 U	--	--
1,3-Dinitrobenzene	ug/L	--	--	--	--	--	< 0.96 U	--	--	--	--	< 4.9 U	< 1.0 U	--	--	--
1,4-Dinitrobenzene	ug/L	--	--	--	--	--	< 0.96 U	--	--	--	--	< 4.9 U	< 1.0 U	--	--	--
2,3,4,6-Tetrachlorophenol	ug/L	--	--	< 0 U	--	--	< 0.96 U	--	--	--	--	< 4.9 U	< 1.0 U	--	--	--
2,3,5,6-Tetrachlorophenol	ug/L	--	--	--	--	--	< 0.96 U	--	--	--	--	< 4.9 U	< 1.0 U	--	--	--
2,3-Dichloroaniline	ug/L	--	--	--	--	--	< 0.96 U	--	--	--	--	< 4.9 U	< 1.0 U	--	--	--
2,4,5-Trichlorophenol	ug/L	--	--	< 0.38 U	--	--	< 0.96 U	--	< 1 U	< 1 U	< 1 U	< 4.9 U	< 1.0 U	< 1 U	--	--
2,4,6-Trichlorophenol	ug/L	--	--	< 0.57 U	--	--	< 0.96 U	--	< 1 U	< 1 U	< 1 U	< 4.9 U	< 1.0 U	< 1 U	--	--
2,4-Dichlorophenol	ug/L	--	--	< 0.38 U	--	--	< 0.96 U	--	< 1 U	< 1 U	< 1 U	< 4.9 U	< 1.0 U	< 1 U	--	--
2,4-Dimethylphenol	ug/L	--	--	< 1.9 U	--	--	< 0.96 U	--	< 1 U	< 1 U	< 1 U	**75**	< 1.0 U	< 1 R	--	--
2,4-Dinitrophenol	ug/L	--	--	< 4.7 U	--	--	< 4.8 U	--	< 2 UJ	< 2 UJ	< 2 UJ	< 25 U	< 10 U	< 3 U	--	--
2,4-Dinitrotoluene	ug/L	--	--	< 0.38 U	--	--	< 0.96 U	--	< 1 U	< 1 U	< 1 U	< 4.9 U	< 1.0 U	< 0.5 U	--	--
2,6-Dinitrotoluene	ug/L	--	--	< 0.38 U	--	--	< 0.96 U	--	< 1 U	< 1 U	< 1 U	< 4.9 U	< 1.0 U	< 0.5 U	--	--
2-Chloronaphthalene	ug/L	--	--	< 0.057 U	--	--	< 0.96 U	--	< 0.2 U	< 0.01 U	< 0.01 U	< 4.9 U	< 1.0 U	< 0.1 U	--	--
2-Chlorophenol	ug/L	--	--	< 0.38 U	--	--	< 0.96 U	--	< 0.2 U	< 0.2 U	< 0.2 U	< 4.9 U	< 1.0 U	< 1 U	--	--
2-Methylphenol	ug/L	--	--	< 0.38 U	--	--	< 0.96 U	--	< 0.2 U	**0.04 J**	**0.03 J**	**220**	**2.2**	< 1 U	--	--
2-Nitroaniline	ug/L	--	--	< 0.38 U	--	--	< 0.96 U	--	< 1 U	< 1 U	< 1 U	< 4.9 U	< 1.0 U	< 0.5 U	--	--
2-Nitrophenol	ug/L	--	--	< 0.38 U	--	--	< 0.96 U	--	< 1 U	< 1 U	< 1 U	< 4.9 UJ	< 1.0 UJ	< 1 U	--	--
3 & 4 Methylphenol	ug/L	--	--	--	--	--	< 0.96 U	--	--	--	--	**350**	**3.2**	< 2 U	--	--
3,3'-Dichlorobenzidine	ug/L	--	--	< 1.9 U	--	--	< 0.96 U	--	< 1 U	< 1 U	< 1 U	< 4.9 U	< 1.0 U	< 1 U	--	--
3-Nitroaniline	ug/L	--	--	< 0.38 U	--	--	< 0.96 U	--	< 1 U	< 1 U	< 1 U	< 4.9 U	< 1.0 U	< 10 U	--	--
4,6-Dinitro-2-methylphenol	ug/L	--	--	< 3.8 U	--	--	< 4.8 U	--	< 2 U	< 2 U	< 2 U	< 25 U	< 5.0 U	< 3 U	--	--
4-Bromophenyl phenyl ether	ug/L	--	--	< 0.38 U	--	--	< 0.96 U	--	< 0.2 U	< 0.2 U	< 0.2 U	< 4.9 U	< 1.0 U	< 0.1 U	--	--
4-Chloro-3-methylphenol	ug/L	--	--	< 0.38 U	--	--	< 0.96 U	--	< 1 U	< 1 U	< 1 U	< 4.9 U	< 1.0 U	< 1 U	--	--
4-Chloroaniline	ug/L	--	--	< 0.38 U	--	--	< 0.96 U	--	< 1 UJ	< 1 UJ	< 1 UJ	< 4.9 U	< 1.0 U	< 10 U	--	--
4-Chlorophenyl phenyl ether	ug/L	--	--	< 0.38 U	--	--	< 0.96 U	--	< 0.2 UJ	< 0.2 U	< 0.2 U	< 4.9 U	< 1.0 U	< 0.1 U	--	--
4-Methylphenol	ug/L	--	--	**3.4**	--	--	--	--	< 0.2 U	**0.05 J**	**0.04 J**	--	--	--	--	--
4-Nitroaniline	ug/L	--	--	< 0.57 U	--	--	< 0.96 U	--	< 1 U	< 1 U	< 1 U	< 4.9 U	< 1.0 U	< 10 U	--	--
4-Nitrophenol	ug/L	--	--	< 2.8 U	--	--	< 4.8 U	--	< 1 U	< 1 U	< 1 U	< 25 U	< 5.0 U	< 3 U	--	--
Aniline	ug/L	--	--	--	--	--	< 4.8 U	--	--	--	--	< 25 U	< 5.0 U	--	--	--
Benzidine	ug/L	--	--	--	--	--	< 4.8 U	--	--	--	--	< 25 U	< 5.0 U	--	--	--
Benzoic acid	ug/L	--	--	**3.6**	--	--	--	--	< 2 U	**0.4 J**	**0.4 J**	--	--	< 5 U	--	--
Benzyl alcohol	ug/L	--	--	< 0.38 U	--	--	< 0.96 U	--	< 0.2 U	**0.2 J**	**0.2 J**	**880**	**18**	**1.3**	--	--
Benzyl butyl phthalate	ug/L	--	--	**0.25 J**	--	--	< 0.96 U	--	< 0.2 U	**0.2 J**	**0.2 J**	< 4.9 U	< 1.0 U	< 1 U	--	--
Bis(2-chloro-1-methylethyl) ether	ug/L	--	--	--	--	--	--	--	< 0.2 U	< 0.2 U	< 0.2 U	--	--	< 0.1 U	--	--
Bis(2-chloroethoxy)methane	ug/L	--	--	< 0.38 U	--	--	< 0.96 U	--	< 0.2 U	< 0.2 U	< 0.2 U	< 4.9 U	< 1.0 U	< 0.1 U	--	--
Bis(2-chloroethyl) ether	ug/L	--	--	< 0.38 U	--	--	< 0.96 U	--	< 0.2 U	< 0.2 U	< 0.2 U	< 4.9 U	< 1.0 U	< 0.1 U	--	--
bis(2-Chloroisopropyl)ether	ug/L	--	--	--	--	--	< 0.96 U	--	--	--	--	< 4.9 U	< 1.0 U	--	--	--
Bis(2-ethylhexyl) adipate	ug/L	--	--	--	--	--	< 0.96 U	--	--	--	--	< 25 U	< 5.0 U	--	--	--
Bis(2-ethylhexyl) phthalate	ug/L	--	--	< 2.8 U	--	--	**2.5**	--	**2.6**	**3.7**	**3.3**	< 25 U	< 5.0 U	**4**	--	--
Carbazole	ug/L	--	--	< 0.38 U	--	--	< 0.96 U	--	< 0.2 U	**0.008 J**	**0.007 J**	< 4.9 U	< 1.0 U	< 0.1 U	--	--
Dibenzofuran	ug/L	--	--	< 0.38 U	--	--	< 0.96 U	--	< 0.1 U	**0.002 J**	< 0.01 U	< 4.9 U	< 1.0 U	< 0.1 U	--	--
Diethyl phthalate	ug/L	--	--	< 0.38 U	--	--	< 0.96 U	--	< 0.2 U	< 0.2 U	< 0.2 U	< 4.9 U	< 1.0 U	< 1 U	--	--
Dimethyl phthalate	ug/L	--	--	**0.31 J**	--	--	< 0.96 U	--	**0.7**	**16.9**	**15.7**	**59**	< 5.0 U	< 1 U	--	--
Di-n-butyl phthalate	ug/L	--	--	**0.15 J**	--	--	< 0.96 U	--	**0.7**	**0.2 J**	**0.2 J**	< 25 U	< 5.0 U	< 1 U	--	--
Di-n-octyl phthalate	ug/L	--	--	< 0.38 U	--	--	< 0.96 U	--	**0.3**	**0.2 J**	**0.2 J**	< 4.9 U	< 1.0 U	< 1 U	--	--
Hexachlorobenzene	ug/L	--	--	< 0.38 U	--	--	< 0.96 U	--	< 0.2 U	< 0.2 U	< 0.2 U	< 4.9 U	< 1.0 U	< 0.1 U	--	--
Hexachlorobutadiene	ug/L	--	--	< 0.57 U	--	--	< 0.96 U	--	< 0.2 U	< 0.2 U	< 0.2 U	< 4.9 U	< 1.0 U	< 0.1 U	--	--
Hexachlorocyclopentadiene	ug/L	--	--	< 1.9 U	--	--	< 0.96 U	--	< 1 UJ	< 1 U	< 1 U	< 4.9 U	< 1.0 U	< 0.3 U	--	--
Hexachloroethane	ug/L	--	--	< 0.57 U	--	--	< 0.96 U	--	< 0.2 U	< 0.2 U	< 0.2 U	< 4.9 U	< 1.0 U	< 0.1 U	--	--
Isophorone	ug/L	--	--	< 0.38 U	--	--	< 0.96 U	--	< 0.2 U	< 0.2 U	< 0.2 U	< 4.9 U	< 1.0 U	< 0.1 U	--	--
Nitrobenzene	ug/L	--	--	< 0.38 U	--	--	< 0.96 U	--	< 0.2 U	< 0.2 U	< 0.2 U	< 4.9 U	< 1.0 U	< 0.1 U	--	--
N-Nitrosodimethylamine	ug/L	--	--	< 1.9 U	--	--	< 0.96 U	--	--	--	--	< 4.9 U	< 1.0 U	< 0.1 U	--	--
N-Nitroso-di-n-propylamine	ug/L	--	--	< 0.38 U	--	--	< 0.96 U	--	< 0.2 U	< 0.2 U	< 0.2 U	< 4.9 U	< 1.0 U	< 0.1 U	--	--
N-Nitrosodiphenylamine	ug/L	--	--	< 0.38 U	--	--	< 0.96 U	--	< 0.2 U	< 0.2 U	< 0.2 U	< 4.9 U	< 1.0 U	< 0.1 U	--	--
Pentachlorophenol	ug/L	--	--	< 0.66 U	--	--	< 4.8 U	--	< 1 UJ	**0.3 J**	**0.2 J**	< 25 U	< 5.0 U	**0.82**	--	--
Perylene	ug/L	--	--	--	--	--	--	--	--	< 0.01 U	< 0.01 U	--	--	--	--	--
Phenol	ug/L	--	--	< 0.57 U	--	--	< 0.96 U	--	**0.1 J**	**0.1 J**	**0.1 J**	**930**	**8.7**	< 1 U	--	--
Pyridine	ug/L	--	--	--	--	--	< 0.96 U	--	--	--	--	< 4.9 U	< 1.0 U	--	--	--

Table I.3.E - Stormwater Analytical Results

South Park Marina Site, Seattle, Washington

Location		SWRX-POST (Cont'd)		SWRX-PRE												
Date		03/02/2023	04/07/2023	10/08/2014	04/12/2017	05/16/2017	06/08/2017	09/19/2017	03/04/2021	05/27/2021	05/27/2021	09/02/2021	09/02/2021	11/22/2022	11/22/2022	11/22/2022
Sample		SPM-NPDES-SW-230302-TIG	SPM-NPDES-SW-230407-TIG	SP-OWS-01 (WATER)	SPM-SWRX-PRE-0SW-20170412	SPM-SWRX-PRE-0SW-20170516	SPM-SWRX-PRE-0SW-20170608	SPM-SWRX-PRE-0SW-20170919	PRERX-SW-210304	PRERX-SW-210527	PRERX-SW-FD-210527	20210902SWRX-1-TIG	20210902SWRX-2-TIG	SWRX-PRE-SW-221122	SPM-PRE-VAULT-202211122-TIG	SPM-SWRX-PRE-0R001-20221122-TIG
Analyte	**Unit**															
Pesticides																
4,4'-DDD	ug/L	--	--	--	--	--	--	--	--	--	--	**0.047 J**	< 0.0048 U	--	--	--
4,4'-DDE	ug/L	--	--	--	--	--	--	--	--	--	--	< 0.0049 U	< 0.0048 U	--	--	--
4,4'-DDT	ug/L	--	--	--	--	--	--	--	--	--	--	**0.081 J**	< 0.0048 UJ	--	--	--
Aldrin	ug/L	--	--	--	--	--	--	--	--	--	--	**0.012 J**	**0.012**	--	--	--
Alpha-BHC	ug/L	--	--	--	--	--	--	--	--	--	--	< 0.0049 U	< 0.0048 U	--	--	--
Beta-BHC	ug/L	--	--	--	--	--	--	--	--	--	--	**0.12 J**	**0.018 J**	--	--	--
cis-Chlordane	ug/L	--	--	--	--	--	--	--	--	--	--	**0.028**	< 0.0048 U	--	--	--
Delta-BHC	ug/L	--	--	--	--	--	--	--	--	--	--	**0.059 J**	< 0.0048 U	--	--	--
Dieldrin	ug/L	--	--	--	--	--	--	--	--	--	--	**0.065 J**	< 0.0048 U	--	--	--
Endosulfan I	ug/L	--	--	--	--	--	--	--	--	--	--	< 0.0049 U	< 0.0048 U	--	--	--
Endosulfan II	ug/L	--	--	--	--	--	--	--	--	--	--	**0.0056 J**	< 0.0048 U	--	--	--
Endosulfan Sulfate	ug/L	--	--	--	--	--	--	--	--	--	--	**0.052 J**	< 0.0048 UJ	--	--	--
Endrin	ug/L	--	--	--	--	--	--	--	--	--	--	**0.052**	< 0.0048 U	--	--	--
Endrin Aldehyde	ug/L	--	--	--	--	--	--	--	--	--	--	< 0.0049 UJ	< 0.0048 UJ	--	--	--
Endrin ketone	ug/L	--	--	--	--	--	--	--	--	--	--	< 0.020 U	< 0.019 U	--	--	--
Heptachlor	ug/L	--	--	--	--	--	--	--	--	--	--	**0.058**	< 0.0048 U	--	--	--
Heptachlor Epoxide	ug/L	--	--	--	--	--	--	--	--	--	--	**0.021 J**	**0.0072**	--	--	--
Lindane	ug/L	--	--	--	--	--	--	--	--	--	--	**0.027**	< 0.0048 U	--	--	--
Methoxychlor	ug/L	--	--	--	--	--	--	--	--	--	--	**0.080 J**	< 0.0097 UJ	--	--	--
Toxaphene	ug/L	--	--	--	--	--	--	--	--	--	--	< 0.049 U	< 0.048 U	--	--	--
trans-Chlordane	ug/L	--	--	--	--	--	--	--	--	--	--	< 0.0049 U	< 0.0048 U	--	--	--
Total Petroleum Hydrocarbons (TPH)																
Gasoline Range Organics	ug/L	--	--	--	--	--	--	--	< 100 U	< 100 U	< 100 U	**3500**	< 100 U	--	--	--
Diesel Range Organics	ug/L	< 80 U	< 50 U	--	--	--	--	--	**305**	< 100 U	< 100 U	**11000**	**440**	--	--	--
Motor Oil Range Organics	ug/L	< 160 U	< 250 U	--	--	--	--	--	**380**	< 200 U	< 200 U	**20000**	**280**	--	--	--
Diesel + Oil Extended Range Organi	ug/L	--	--	--	--	--	--	--	**685**	< 200 U	< 200 U	**31000**	**720**	--	--	--
Benzene, Toluene, Ethylbenzene, Xylenes (																
Benzene	ug/L	--	--	--	--	--	--	--	--	--	--	**42**	**1.3**	--	--	--
Toluene	ug/L	--	--	--	--	--	--	--	--	--	--	**350**	**6.7**	--	--	--
Ethylbenzene	ug/L	--	--	--	--	--	--	--	--	--	--	**60**	**1.1**	--	--	--
Total Xylenes	ug/L	--	--	--	--	--	--	--	--	--	--	**410**	**6.5**	--	--	--
Volatile Organic Compounds (VOCs)																
1,1,1,2-Tetrachloroethane	ug/L	--	--	--	--	--	--	--	--	--	--	< 2.0 U	< 1.0 U	--	--	--
1,1,1-Trichloroethane	ug/L	--	--	--	--	--	--	--	--	--	--	< 2.0 U	< 1.0 U	--	--	--
1,1,2,2-Tetrachloroethane	ug/L	--	--	--	--	--	--	--	--	--	--	< 2.0 U	< 1.0 U	--	--	--
1,1,2-Trichloroethane	ug/L	--	--	--	--	--	--	--	--	--	--	< 2.0 U	< 1.0 U	--	--	--
1,1-Dichloroethane	ug/L	--	--	--	--	--	--	--	--	--	--	< 2.0 U	< 1.0 U	--	--	--
1,1-Dichloroethene	ug/L	--	--	--	--	--	--	--	--	--	--	< 2.0 U	< 1.0 U	--	--	--
1,1-Dichloropropene	ug/L	--	--	--	--	--	--	--	--	--	--	< 2.0 U	< 1.0 U	--	--	--
1,2,3-Trichlorobenzene	ug/L	--	--	--	--	--	--	--	--	--	--	< 2.6 UJ	< 1.3 UJ	--	--	--
1,2,3-Trichloropropane	ug/L	--	--	--	--	--	--	--	--	--	--	< 2.9 UJ	< 1.5 UJ	--	--	--
1,2,4-Trichlorobenzene	ug/L	--	--	< 0.38 U	--	--	< 0.96 U	--	< 0.2 U	< 0.2 U	< 0.2 U	< 2.0 U	< 1.0 U	< 0.1 U	--	--
1,2,4-Trimethylbenzene	ug/L	--	--	--	--	--	--	--	--	--	--	**120**	**2.2**	--	--	--
1,2-Dibromo-3-chloropropane	ug/L	--	--	--	--	--	--	--	--	--	--	< 10 U	< 5.0 U	--	--	--
1,2-Dibromoethane (EDB)	ug/L	--	--	--	--	--	--	--	--	--	--	< 2.0 U	< 1.0 U	--	--	--
1,2-Dichlorobenzene	ug/L	--	--	< 0.38 U	--	--	< 0.96 U	--	< 0.2 U	< 0.2 U	< 0.2 U	< 2.0 U	< 1.0 U	< 0.1 U	--	--
1,2-Dichloroethane (EDC)	ug/L	--	--	--	--	--	--	--	--	--	--	< 2.0 U	< 1.0 U	--	--	--
1,2-Dichloropropane	ug/L	--	--	--	--	--	--	--	--	--	--	< 2.0 U	< 1.0 U	--	--	--
1,3,5-Trimethylbenzene	ug/L	--	--	--	--	--	--	--	--	--	--	**28**	< 1.0 U	--	--	--
1,3-Dichlorobenzene	ug/L	--	--	< 0.38 U	--	--	< 0.96 U	--	< 0.2 U	< 0.2 U	< 0.2 U	< 2.0 U	< 1.0 U	< 0.1 U	--	--
1,3-Dichloropropane	ug/L	--	--	--	--	--	--	--	--	--	--	< 2.0 U	< 1.0 U	--	--	--
1,4-Dichlorobenzene	ug/L	--	--	< 0.38 U	--	--	< 0.96 U	--	< 0.2 U	< 0.2 U	< 0.2 U	< 2.0 U	< 1.0 U	< 0.1 U	--	--
1-Chloropropane	ug/L	--	--	**0.38**	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	ug/L	--	--	--	--	--	--	--	--	--	--	< 2.0 UJ	< 1.0 UJ	--	--	--
2-Butanone	ug/L	--	--	--	--	--	--	--	--	--	--	**150**	**39**	--	--	--
2-Chloroethyl Vinyl Ether	ug/L	--	--	--	--	--	--	--	--	--	--	< 10 U	< 5.0 U	--	--	--
2-Chlorotoluene	ug/L	--	--	--	--	--	--	--	--	--	--	< 2.0 U	< 1.0 U	--	--	--
2-Hexanone	ug/L	--	--	--	--	--	--	--	--	--	--	< 20 U	< 10 U	--	--	--
4-Chlorotoluene	ug/L	--	--	--	--	--	--	--	--	--	--	< 2.0 U	< 1.0 U	--	--	--
4-Methyl-2-pentanone	ug/L	--	--	--	--	--	--	--	--	--	--	< 20 U	< 10 U	--	--	--
Acetone	ug/L	--	--	--	--	--	--	--	--	--	--	**900**	**470**	--	--	--
Bromobenzene	ug/L	--	--	--	--	--	--	--	--	--	--	< 2.0 U	< 1.0 U	--	--	--
Bromochloromethane	ug/L	--	--	--	--	--	--	--	--	--	--	< 2.0 U	< 1.0 U	--	--	--
Bromodichloromethane	ug/L	--	--	--	--	--	--	--	--	--	--	< 2.0 U	< 1.0 U	--	--	--
Bromoform	ug/L	--	--	--	--	--	--	--	--	--	--	< 10 U	< 5.0 U	--	--	--
Bromomethane	ug/L	--	--	--	--	--	--	--	--	--	--	< 5.1 UJ	< 2.6 UJ	--	--	--
Carbon Disulfide	ug/L	--	--	--	--	--	--	--	--	--	--	< 2.0 U	< 1.0 U	--	--	--
Carbon Tetrachloride	ug/L	--	--	--	--	--	--	--	--	--	--	< 2.0 U	< 1.0 U	--	--	--
Chlorobenzene	ug/L	--	--	--	--	--	--	--	--	--	--	< 2.0 U	< 1.0 U	--	--	--
Chloroethane	ug/L	--	--	--	--	--	--	--	--	--	--	< 10 U	< 5.0 U	--	--	--
Chloroform	ug/L	--	--	--	--	--	--	--	--	--	--	**4.9**	< 1.0 U	--	--	--
Chloromethane	ug/L	--	--	--	--	--	--	--	--	--	--	< 14 UJ	< 7.0 UJ	--	--	--
cis-1,2-Dichloroethene (DCE)	ug/L	--	--	--	--	--	--	--	--	--	--	< 2.0 U	< 1.0 U	--	--	--
cis-1,3-Dichloropropene	ug/L	--	--	--	--	--	--	--	--	--	--	< 2.0 U	< 1.0 U	--	--	--
Dibromochloromethane	ug/L	--	--	--	--	--	--	--	--	--	--	< 2.0 U	< 1.0 U	--	--	--
Dibromomethane	ug/L	--	--	--	--	--	--	--	--	--	--	< 2.0 U	< 1.0 U	--	--	--
Dichlorodifluoromethane	ug/L	--	--	--	--	--	--	--	--	--	--	< 4.2 UJ	< 2.1 UJ	--	--	--
Isopropylbenzene	ug/L	--	--	--	--	--	--	--	--	--	--	**3.7**	< 1.0 U	--	--	--
m,p-Xylenes	ug/L	--	--	--	--	--	--	--	--	--	--	**270**	**4.3**	--	--	--
Methyl tert-butyl ether (MTBE)	ug/L	--	--	--	--	--	--	--	--	--	--	< 2.0 U	< 1.0 U	--	--	--
Methylene Chloride	ug/L	--	--	--	--	--	--	--	--	--	--	**12**	< 5.0 U	--	--	--
Methyliodide	ug/L	--	--	--	--	--	--	--	--	--	--	< 14 UJ	< 7.0 UJ	--	--	--
n-Butylbenzene	ug/L	--	--	--	--	--	--	--	--	--	--	< 2.0 U	< 1.0 U	--	--	--
n-Propylbenzene	ug/L	--	--	--	--	--	--	--	--	--	--	**12**	< 1.0 U	--	--	--
o-Xylene	ug/L	--	--	--	--	--	--	--	--	--	--	**140**	**2.2**	--	--	--
p-Isopropyltoluene	ug/L	--	--	--	--	--	--	--	--	--	--	< 2.0 U	< 1.0 U	--	--	--
sec-Butylbenzene	ug/L	--	--	--	--	--	--	--	--	--	--	< 2.0 U	< 1.0 U	--	--	--
Styrene	ug/L	--	--	--	--	--	--	--	--	--	--	**32**	< 1.0 U	--	--	--
tert-Butylbenzene	ug/L	--	--	--	--	--	--	--	--	--	--	< 2.0 U	< 1.0 U	--	--	--
Tetrachloroethene (PCE)	ug/L	--	--	--	--	--	--	--	--	--	--	< 2.0 U	< 1.0 U	--	--	--
trans-1,2-Dichloroethene	ug/L	--	--	--	--	--	--	--	--	--	--	< 2.0 U	< 1.0 U	--	--	--
trans-1,3-Dichloropropene	ug/L	--	--	--	--	--	--	--	--	--	--	< 2.0 U	< 1.0 U	--	--	--
Trichloroethene (TCE)	ug/L	--	--	--	--	--	--	--	--	--	--	< 2.0 U	< 1.0 U	--	--	--
Trichlorofluoromethane	ug/L	--	--	--	--	--	--	--	--	--	--	< 2.0 U	< 1.0 U	--	--	--
Vinyl Acetate	ug/L	--	--	--	--	--	--	--	--	--	--	< 10 U	< 5.0 U	--	--	--
Vinyl Chloride	ug/L	--	--	--	--	--	--	--	--	--	--	< 2.0 U	< 1.0 U	--	--	--
Conventionals																
Total Organic Carbon	ug/L	--	--	**1700**	--	--	**16000**	--	**7990**	**9610**	**9330**	--	--	--	--	--
Total Suspended Solids	mg/L	< 4 U	< 5 U	< 3.3 U	--	--	**13**	--	**11**	**6 J**	**9 J**	--	--	< 5 U	**82**	**16**
Field Parameters																
Temperature	deg C	--	--	--	--	--	**18.6**	--	--	--	--	--	--	--	--	--
Specific Conductance	umhos/cm	--	--	**81**	--	--	**48**	--	--	--	--	--	--	--	--	--
Dissolved Oxygen	mg/L	--	--	--	--	--	**8.15**	--	--	--	--	--	--	--	--	--
pH	pH units	**6.2**	**7.86**	**7.25**	--	--	**6.68**	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potential	mV	--	--	--	--	--	**120**	--	--	--	--	--	--	--	--	--
Turbidity	NTU	**1.7**	--	**1.5**	--	--	**24**	--	--	--	--	--	--	--	**10**	**6.1**

Table I.3.E. Stormwater Analytical Results

South Park Marina Site, Seattle, Washington

Notes:

Bold - detected

ug/L = micrograms per liter

mg/L = milligrams per liter

"--" = Results not available

U = Analyte not detected at or above Reporting Limit (RL) shown

J = Result value estimated

UJ = Analyte not detected, and the Reporting Limit (RL) is an estimate

R = Rejected, refer to data validation report

RDL = reported detection limit

RI = Remedial Investigation

SL = screening level

MTCA = Model Toxics Control Act

PCB = polychlorinated biphenyl

All soil/solids concentrations are on a dry-weight basis.

Total PCB Arolclors (ND = 0) are the sum of Aroclors presented, with nondetects = 0, unless all Aroclors were not detected, in which case the Total PCB Aroclors concentration is shown as non-detect at the maximum reporting limit for any individual Aroclor presented.

Total PCB Congeners (ND = 0) and Total PCB TEQ (ND = 0) are summed with nondetects = 0.

LPAHs = low molecular weight polycyclic aromatic hydrocarbons: naphthalene, acenaphthylene, acenaphethene, fluorene, phenanthrene, and anthracene.

HPAHs = high molecular weight polycyclic aromatic hydrocarbons: fluoranthene, pyrene, benz(a)anthracene, chrysene, total benzofluoranthenes, benzo(a)pyrene, indeno(1,2,3,-c,d)pyrene, dibenzo(a,h)anthracene, and benzo(g,h,i)perylene.

cPAHs = carcinogenic polycyclic aromatic hydrocarbons: benzo(a)pyrene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene.

TEQ = toxic equivalency

Table I.3.F. Soil Gas Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Light Gray - Non-detected result exceeded unrestricted use Preliminary RI SL
Dark Gray - Non-detected result exceeded commercial worker Preliminary RI SL
Light Purple Shaded - Detected result exceeded unrestricted use Preliminary RI SL
Dark Purple Shaded - Detected result exceeded commercial worker Preliminary RI SL

			Location	SG-01		SG-02		SG-03	SG-04
			Date	10/07/2022	03/21/2023	10/07/2022	03/21/2023	03/21/2023	03/21/2023
			Sample	SG-01-221007	SG-01-230321	SG-02-221007	SG-02-230321	SG-03-230321	SG-04-230321
Analyte	**Unit**	**Unrestricted Use Preliminary RI SL**	**Commercial Worker Preliminary RI SL**						
Volatile Organic Compounds (VOCs)									
1,1,1-Trichloroethane	ug/m^3	76000	650000	< 22 U	< 8.7 U	< 9.3 U	< 4.4 U	< 4.2 U	< 4.3 U
1,1,2,2-Tetrachloroethane	ug/m^3	1.4	6.7	< 5.6 U	--	< 2.3 U	--	--	--
1,1,2-Trichloroethane	ug/m^3	3	24	< 2.2 U	< 0.87 U	< 0.93 U	< 0.44 U	< 0.42 U	< 0.43 U
1,1,2-Trichlorotrifluoroethane	ug/m^3	76000	650000	< 31 U	--	< 13 U	--	--	--
1,1-Dichloroethane	ug/m^3	52	240	< 17 U	< 6.5 U	< 6.9 U	< 3.2 U	< 3.1 U	< 3.2 U
1,1-Dichloroethene	ug/m^3	3000	26000	< 16 U	< 6.3 U	< 6.7 U	< 3.2 U	< 3.1 U	< 3.1 U
1,2,4-Trichlorobenzene	ug/m^3	30	260	< 30 U	--	< 13 U	--	--	--
1,2,4-Trimethylbenzene	ug/m^3	910	7800	< 200 U	--	< 84 U	--	--	--
1,2-Dibromoethane (EDB)	ug/m^3	0.14	0.65	< 3.2 U	--	< 1.3 U	--	--	--
1,2-Dichlorobenzene	ug/m^3	3000	26000	< 25 U	--	< 10 U	--	--	--
1,2-Dichloroethane (EDC)	ug/m^3	3.2	15	< 1.7 U	< 0.65 U	< 0.69 U	< 0.32 U	< 0.31 U	< 0.32 U
1,2-Dichloropropane	ug/m^3	23	110	< 9.5 U	--	< 3.9 U	--	--	--
1,3,5-Trimethylbenzene	ug/m^3	910	7800	< 200 U	--	< 84 U	--	--	--
1,3-Dichlorobenzene	ug/m^3			**40**	--	**46**	--	--	--
1,4-Dichlorobenzene	ug/m^3	7.6	35	< 9.4 U	--	< 3.9 U	--	--	--
1,4-Dioxane	ug/m^3	17	78	< 15 U	--	< 6.1 U	--	--	--
1-Propene	ug/m^3			< 49 U	--	< 20 U	--	--	--
2-Butanone	ug/m^3	76000	650000	< 240 U	--	< 100 U	--	--	--
2-Chlorotoluene	ug/m^3			< 210 U	--	< 88 U	--	--	--
2-Hexanone	ug/m^3	460	3900	< 170 U	--	< 70 U	--	--	--
4-Methyl-2-pentanone	ug/m^3	46000	390000	< 170 U	--	< 70 U	--	--	--
Acetone	ug/m^3			< 190 U	--	**95**	--	--	--
Acrolein	ug/m^3	0.3	2.6	< 4.7 U	--	< 1.9 U	--	--	--
Allyl Chloride	ug/m^3	14	65	< 130 U	--	< 53 U	--	--	--
Bromodichloromethane	ug/m^3	2.3	11	< 2.7 U	--	< 1.1 U	--	--	--
Bromoform	ug/m^3	76	350	< 85 U	--	< 35 U	--	--	--
Bromomethane	ug/m^3	76	650	< 160 U	--	< 66 U	--	--	--
Butane	ug/m^3			< 190 U	--	< 81 U	--	--	--
Carbon Disulfide	ug/m^3	11000	91000	< 260 U	--	< 110 U	--	--	--
Carbon Tetrachloride	ug/m^3	14	65	< 13 U	--	< 5.3 U	--	--	--
Chlorobenzene	ug/m^3	760	6500	< 19 U	--	< 7.8 U	--	--	--
Chloroethane	ug/m^3	150000	1300000	< 110 U	< 42 U	< 45 U	< 21 U	< 20 U	< 21 U
Chloroform	ug/m^3	3.6	17	< 2 U	--	**2**	--	--	--
Chloromethane	ug/m^3	1400	12000	< 150 U	--	< 63 U	--	--	--
cis-1,2-Dichloroethene (cDCE)	ug/m^3	610	5200	< 16 U	< 6.3 U	< 6.7 U	< 3.2 U	< 3.1 U	< 3.1 U
cis-1,3-Dichloropropene	ug/m^3			< 37 U	--	< 15 U	--	--	--
Cyclohexane	ug/m^3	91000	780000	< 280 U	--	< 120 U	--	--	--
Dibromochloromethane	ug/m^3			< 3.5 U	--	< 1.4 U	--	--	--
Dichlorodifluoromethane	ug/m^3	1500	13000	< 41 U	--	< 17 U	--	--	--
Ethanol	ug/m^3			< 310 U	--	< 130 U	--	--	--
Ethyl acetate	ug/m^3	1100	9100	< 300 U	--	< 120 U	--	--	--
Hexachlorobutadiene	ug/m^3	3.8	18	< 8.7 U	--	< 3.6 U	--	--	--
Isopropyl Alcohol	ug/m^3			**560**	--	**960 J**	--	--	--
Isopropylbenzene	ug/m^3	6100	52000	< 400 U	--	< 170 U	--	--	--
m,p-Xylenes	ug/m^3			< 36 U	--	**18**	--	--	--
Methyl Methacrylate	ug/m^3	11000	91000	< 170 U	--	< 70 U	--	--	--
Methyl tert-butyl ether (MTBE)	ug/m^3	320	1500	< 300 U	--	< 120 U	--	--	--
Methylene Chloride	ug/m^3	2200	39000	< 1400 U	--	< 590 U	--	--	--
n-Hexane	ug/m^3	11000	91000	< 140 U	--	< 60 U	--	--	--
Nonane	ug/m^3			< 220 U	--	< 89 U	--	--	--
n-Propylbenzene	ug/m^3	15000	130000	< 200 U	--	< 84 U	--	--	--
o-Xylene	ug/m^3			< 18 U	--	< 7.4 U	--	--	--
Pentane	ug/m^3			< 240 U	--	< 100 U	--	--	--
Styrene	ug/m^3	15000	130000	< 35 U	--	< 14 U	--	--	--
t-Butyl alcohol (TBA)	ug/m^3			< 500 U	--	< 210 U	--	--	--
Tetrachloroethene (PCE)	ug/m^3	320	1500	**43000 J**	**12000 J**	**10000 J**	**1900 J**	**1000 J**	**140**
Tetrahydrofuran	ug/m^3	30000	260000	< 24 U	--	< 10 U	--	--	--
trans-1,2-Dichloroethene	ug/m^3	610	5200	< 16 U	< 6.3 U	< 6.7 U	< 3.2 U	< 3.1 U	< 3.1 U
trans-1,3-Dichloropropene	ug/m^3			< 19 U	--	< 7.7 U	--	--	--
Trichloroethene (TCE)	ug/m^3	11	95	**75**	**24**	**12**	**2.4**	**1.8**	< 0.85 U
Trichlorofluoromethane	ug/m^3	11000	91000	< 92 U	--	< 38 U	--	--	--
Vinyl Acetate	ug/m^3	3000	26000	< 290 U	--	< 120 U	--	--	--
Vinyl Bromide	ug/m^3	5.6	26	< 18 U	--	< 7.4 U	--	--	--
Vinyl Chloride	ug/m^3	9.5	44	< 10 U	< 4.1 U	< 4.3 U	< 2 U	< 2 U	< 2 U
1,3-Butadiene	ug/m^3	2.8	13	< 1.8 U	--	< 0.75 U	--	--	--
2,2,4-Trimethylpentane	ug/m^3			< 190 U	--	< 79 U	--	--	--
4-Ethyltoluene	ug/m^3			< 200 U	--	< 84 U	--	--	--
alpha-Chlorotoluene	ug/m^3	1.7	7.9	< 2.1 U	--	< 0.88 U	--	--	--
Freon 114	ug/m^3			< 86 U	--	< 36 U	--	--	--
Heptane	ug/m^3	6100	52000	< 170 U	--	< 70 U	--	--	--
Air-Phase Hydrocarbons (APHs)									
C5 - C8 Aliphatic Hydrocarbons	ug/m^3			< 3100 U	--	< 1300 U	--	--	--
C9 - C12 Aliphatic Hydrocarbons	ug/m^3			< 1000 U	--	< 420 U	--	--	--
C9 - C10 Aromatic Hydrocarbons	ug/m^3			< 1000 U	--	< 420 U	--	--	--
Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX)									
Benzene	ug/m^3	11	50	< 13 U	--	< 5.4 U	--	--	--
Toluene	ug/m^3	76000	650000	< 770 U	--	< 320 U	--	--	--
Ethylbenzene	ug/m^3	15000	130000	< 18 U	--	< 7.4 U	--	--	--
Total Xylenes	ug/m^3	1500	13000	< 36 U	--	**21.7**	--	--	--

Table I.3.F. Soil Gas Analytical Results

South Park Marina Site, Seattle, Washington

Highlighting Key (see last page for detailed notes):
Bold - Detected
Light Gray - Non-detected result exceeded unrestricted use Preliminary RI SL
Dark Gray - Non-detected result exceeded commercial worker Preliminary RI SL
Light Purple Shaded - Detected result exceeded unrestricted use Preliminary RI SL
Dark Purple Shaded - Detected result exceeded commercial worker Preliminary RI SL

			Location	SG-01		SG-02		SG-03	SG-04
			Date	10/07/2022	03/21/2023	10/07/2022	03/21/2023	03/21/2023	03/21/2023
			Sample	SG-01-221007	SG-01-230321	SG-02-221007	SG-02-230321	SG-03-230321	SG-04-230321
Analyte	**Unit**	**Unrestricted Use Preliminary RI SL**	**Commercial Worker Preliminary RI SL**						
Polycyclic Aromatic Hydrocarbons (PAHs)									
Naphthalene	ug/m^3	2.5	11	< 11 U	--	< 2.4 U	--	--	--
Conventionals									
Helium	%			< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U

Notes:

Bold - detected

ug/m^3 = micrograms per cubic meter

"--" = Results not available

U = Analyte not detected at or above Reporting Limit (RL) shown

J = Result value estimated

Preliminary RI SL = Preliminary Remedial Investigation Screening Level; refer to Section 6.2.

Screening Level Notes:

Screening level shading is hierarchical: If only non-detect values exceed the Unrestricted Use SL, the SL is shaded grey; if detected results exceed the Unrestriced Use SL, the Unrestriced Use SL is shaded blue. An additional hierarchy has been applied - dark grey and dark blue shading indicate the non-detected or detected result exceeds the Commercial Worker SL (and therefore the Unrestricted Use SL as well).

Light Gray Shaded - Non-detect result has a reporting limit that exceeds an unrestricted use Preliminary RI SL

Blue Shaded - Detected result exceeded the unrestricted use Preliminary RI SL

Dark Gray Shaded - Non-detect result has a reporting limit that exceeds the commercial worker Prelimiary RI SL

Dark Blue Shaded - Detected result exceeded commercial worker Preliminary RI SL

Table I.3.G. Indoor and Ambient Air Analytical Results

South Park Marina Site, Seattle, Washington

			Location	AMB-1	AMB-2	IA-1	IA-2	IA-3	IA-4
			Date	03/21/2023	03/21/2023	03/21/2023	03/21/2023	03/21/2023	03/21/2023
			Sample	AMB-1-230321	AMB-2-230321	IA-1-230321	IA-2-230321	IA-3-230321	IA-4-230321
Analyte	**Unit**	**Unrestricted Use Preliminary RI SL**	**Commercial Worker Preliminary RI SL**						
Volatile Organic Compounds (VOCs)									
1,1,1-Trichloroethane	ug/m^3	2300	19000	< 0.55 U	< 0.55 U	< 0.55 U	< 0.71 U	< 0.55 U	< 0.55 U
1,1,2-Trichloroethane	ug/m^3	0.091	0.73	< 0.055 U	< 0.055 U	< 0.055 U	< 0.071 U	< 0.055 U	< 0.055 U
1,1-Dichloroethane	ug/m^3	1.6	7.3	< 0.4 U	< 0.4 U	< 0.4 U	< 0.53 U	< 0.4 U	< 0.4 U
1,1-Dichloroethene	ug/m^3	91	780	< 0.4 U	< 0.4 U	< 0.4 U	< 0.52 U	< 0.4 U	< 0.4 U
1,2-Dichloroethane (EDC)	ug/m^3	0.096	0.45	**0.093**	**0.089**	**0.085**	**0.084**	**0.085**	**0.085**
Chloroethane	ug/m^3	4600	39000	< 2.6 U	< 2.6 U	< 2.6 U	< 3.4 U	< 2.6 U	< 2.6 U
cis-1,2-Dichloroethene (cDCE)	ug/m^3	18	160	< 0.4 U	< 0.4 U	< 0.4 U	< 0.52 U	< 0.4 U	< 0.4 U
Tetrachloroethene (PCE)	ug/m^3	9.6	45	< 6.8 U	< 6.8 U	**260 J**	**470 J**	**36**	**4700 J**
trans-1,2-Dichloroethene	ug/m^3	18	160	< 0.4 U	< 0.4 U	< 0.4 U	< 0.52 U	< 0.4 U	< 0.4 U
Trichloroethene (TCE)	ug/m^3	0.33	2.8	< 0.11 U	< 0.11 U	< 0.11 U	< 0.14 U	< 0.11 U	**0.16**
Vinyl Chloride	ug/m^3	0.28	1.3	< 0.26 U	< 0.26 U	< 0.26 U	< 0.33 U	< 0.26 U	< 0.26 U

Notes:

Bold - detected

ug/m^3 = micrograms per cubic meter

U = Analyte not detected at or above Reporting Limit (RL) shown

J = Result value estimated

Preliminary RI SL = Preliminary Remedial Investigation Screening Level; refer to Section 6.2.

Screening Level Notes:

Screening level shading is hierarchical: If only non-detect values exceed the Unrestricted Use SL, the SL is shaded grey; if detected results exceed the Unrestriced Use SL, the Unrestriced Use SL is shaded blue. An additional hierarchy has been applied - dark gray and dark blue shading indicate the non-detected or detected result exceeds the Commercial Worker SL (and therefore the Unrestricted Use SL as well).

Light Gray Shaded - Non-detect result has a reporting limit that exceeds an unrestricted use Preliminary RI SL

Blue Shaded - Detected result exceeded the unrestricted use Preliminary RI SL

Dark Gray Shaded - Non-detect result has a reporting limit that exceeds the commercial worker Prelimiary RI SL

Dark Blue Shaded - Detected result exceeded commercial worker Preliminary RI SL

APPENDIX I.4

Derivation of Proposed RI CULs - Tables I.4.A through I.4.C - Groundwater, Vadose and Saturated Soil, and Soil Gas and Indoor Air

Table I.4.A. Derivation of Proposed RI CULs - Groundwater

South Park Marina Site, Seattle, Washington

			GW-2	GW-3	GW-4	VI	GW-5	PQL
Chemical (all concentrations in ug/L)	**Proposed RI CUL**	**Source of CUL**	**Protect Surface Water** SW	**Protect Sediment** Partit	**Protect Indoor Air** VI	**TCE Short-Term Action Level for Cardiac Birth Defects Unrestricted** VI Guidance	**Natural Background**	**RIWP Addendum SAP/QAPP**
Polychlorinated Biphenyls (PCBs)								
Total PCB Aroclors	3.5E-03	GW-2, PQL Adj.	7.0E-06	1.3E-03	na	na	na	3.5E-03
Total PCB congeners	4.2E-04	GW-2, PQL Adj.	7.0E-06	2.4E-03	na	na	na	4.2E-04
Total PCB TEQ	1.5E-07	GW-2, PQL Adj.	4.4E-09	4.7E-07	na	na	na	1.5E-07
Dioxins/Furans								
Total dioxin/furan TEQ	5.7E-05	GW-2, PQL Adj.	5.1E-09	4.2E-07	na	na	na	5.7E-05
2,3,7,8-TCDD	5.0E-06	GW-2, PQL Adj.	5.1E-09	4.9E-06	na	na	na	5.0E-06
Metals								
Arsenic	8.0E+00	GW-5	1.3E-02	2.2E+02	na	na	8.0E+00	5.0E-01
Barium	2.0E+02	GW-2	2.0E+02	na	na	na	na	2.0E-01
Cadmium	1.2E+00	GW-3	7.9E+00	1.2E+00	na	na	na	2.0E-01
Chromium, total	na	na	na	na	na	na	na	5.0E-01
Chromium, trivalent	2.7E+01	GW-2	2.7E+01	na	na	na	na	na
Chromium, hexavalent	1.1E-01	GW-2	1.1E-01	na	na	na	na	na
Copper	3.1E+00	GW-2	3.1E+00	1.4E+01	na	na	na	5.0E-01
Lead	8.1E+00	GW-2	8.1E+00	1.9E+01	na	na	na	2.0E-01
Mercury, inorganic	2.5E-02	GW-2	2.5E-02	2.0E+00	8.3E-01	na	na	2.5E-02
Nickel	8.2E+00	GW-2	8.2E+00	na	na	na	na	2.0E-01
Selenium	7.1E+01	GW-2	7.1E+01	na	na	na	na	5.0E-01
Zinc	8.1E+01	GW-2	8.1E+01	7.7E+02	na	na	na	5.0E-01
Metals - Butyltins								
Trybutyl tin	7.4E-03	GW-2	7.4E-03	na	na	na	na	5.2E-03
Tributyltin oxide	5.2E-03	GW-3, PQL Adj.	na	4.3E-06	na	na	na	5.2E-03
Polycyclic Aromatic Hydrocarbons (PAHs)								
Acenaphthene	5.3E+00	GW-3	3.0E+01	5.3E+00	na	na	na	1.0E-02
Acenaphthylene	na	na	na	na	na	na	na	1.0E-02
Anthracene	2.1E+00	GW-3	1.0E+02	2.1E+00	na	na	na	1.0E-02
Benzo(a)anthracene	1.0E-02	GW-2, PQL Adj.	1.6E-04	1.9E-01	na	na	na	1.0E-02
Benzo(b)fluoranthene	1.0E-02	GW-2, PQL Adj.	1.6E-04	na	na	na	na	1.0E-02
Benzo(g,h,i)perylene	na	na	na	na	na	na	na	2.0E-02
Benzo(a)pyrene	1.0E-02	GW-2, PQL Adj.	1.6E-05	8.7E-02	na	na	na	1.0E-02
Chrysene	1.6E-02	GW-2	1.6E-02	4.0E-01	na	na	na	1.0E-02
Dibenz(a,h)anthracene	1.0E-02	GW-2, PQL Adj.	1.6E-05	6.8E-03	na	na	na	1.0E-02
Fluoranthene	1.8E+00	GW-3	6.0E+00	1.8E+00	na	na	na	1.0E-02
Fluorene	3.7E+00	GW-3	1.0E+01	3.7E+00	na	na	na	1.0E-02
Indeno(1,2,3-cd)pyrene	1.0E-02	GW-2, PQL Adj.	1.6E-04	1.6E-02	na	na	na	1.0E-02
1-Methylnaphthalene	1.7E-01	GW-4	na	na	1.7E-01	na	na	1.0E-01
2-Methylnaphthalene	1.4E+01	GW-3	na	1.4E+01	na	na	na	1.0E-01
Naphthalene	1.4E+00	GW-2	1.4E+00	9.0E+01	8.8E+00	na	na	1.0E-01
Phenanthrene	na	na	na	na	na	na	na	1.0E-02
Pyrene	2.0E+00	GW-3	8.0E+00	2.0E+00	na	na	na	1.0E-02
Total LPAHs	na	na	na	na	na	na	na	na
Total HPAHs	na	na	na	na	na	na	na	na
Total cPAH TEQ	1.5E-02	GW-2, PQL Adj.	1.6E-05	3.2E-02	na	na	na	1.5E-02
Semivolatile Organic Compounds (SVOCs)								
Benzoic acid	5.9E+02	GW-3	na	5.9E+02	na	na	na	5.0E+00
Benzyl alcohol	5.6E+01	GW-3	na	5.6E+01	na	na	na	1.0E+00
Bis(2-ethylhexyl) phthalate	2.0E-01	GW-2, PQL Adj.	4.6E-02	6.2E-01	na	na	na	2.0E-01
Butyl benzyl phthalate	1.0E+00	GW-2, PQL Adj.	1.3E-02	2.4E-01	na	na	na	1.0E+00
Dibutyl phthalate	8.0E+00	GW-2	8.0E+00	4.6E+01	na	na	na	1.0E+00
1,2-Dichlorobenzene	4.5E+00	GW-3	8.0E+02	4.5E+00	2.5E+03	na	na	1.0E+00
1,3-Dichlorobenzene	2.0E+00	GW-2	2.0E+00	na	na	na	na	1.0E+00
1,4-Dichlorobenzene	5.0E+00	GW-4	6.0E+01	8.9E+00	5.0E+00	na	na	1.0E+00
Diethyl phthalate	9.3E+01	GW-3	2.0E+02	9.3E+01	na	na	na	1.0E+00
Dimethyl phthalate	5.9E+01	GW-3	6.0E+02	5.9E+01	na	na	na	1.0E+00
2,4-Dimethylphenol	2.9E+00	GW-3	9.7E+01	2.9E+00	na	na	na	1.0E+00
2,4-Dinitrophenol	1.0E+02	GW-2	1.0E+02	na	na	na	na	3.0E+00
Hexachlorobenzene	1.0E-01	GW-2, PQL Adj.	5.0E-06	1.4E-02	2.4E-01	na	na	1.0E-01
Hexachlorobutadiene	2.0E-01	GW-2, PQL Adj.	1.0E-02	6.6E-01	6.4E-01	na	na	2.0E-01
Hexachloroethane	1.0E-01	GW-2, PQL Adj.	2.0E-02	na	3.8E+00	na	na	1.0E-01
Isophorone	1.1E+02	GW-2	1.1E+02	na	na	na	na	1.0E-01
2-Methylphenol (o-cresol)	9.8E+00	GW-3	na	9.8E+00	na	na	na	1.0E+00
n-Nitrosodiphenylamine	5.5E-01	GW-3	6.9E-01	5.5E-01	na	na	na	1.0E-01
Pentachlorophenol	5.0E-01	GW-2, PQL Adj.	2.0E-03	8.6E-01	na	na	na	5.0E-01
1,2,4-Trichlorobenzene	1.0E+00	GW-2, PQL Adj.	3.7E-02	9.6E-01	3.9E+01	na	na	1.0E+00
2,4,6-Trichlorophenol	1.0E+00	GW-2, PQL Adj.	2.8E-01	na	na	na	na	1.0E+00
Volatile Organic Compounds (VOCs)								
Benzene	1.6E+00	GW-2	1.6E+00	na	2.4E+00	na	na	3.5E-01
Bromomethane	1.1E+01	GW-4	2.7E+02	na	1.1E+01	na	na	5.0E+00
Chlorobenzene	2.0E+02	GW-2	2.0E+02	na	3.4E+02	na	na	1.0E+00
cis-1,2-Dichloroethylene	na	na	na	na	Pathway Incomplete	na	na	1.0E+00
Ethylbenzene	2.1E+01	GW-2	2.1E+01	na	2.8E+03	na	na	1.0E+00
Methylene chloride	1.0E+02	GW-2	1.0E+02	na	7.8E+02	na	na	5.0E+00
Tetrachloroethylene (PCE)	2.9E+00	GW-2	2.9E+00	na	2.5E+01	na	na	1.0E+00
Toluene	1.0E+02	GW-2	1.0E+02	na	1.5E+04	na	na	1.0E+00
1,1,2-Trichloroethane	9.0E-01	GW-2	9.0E-01	na	5.1E+00	na	na	5.0E-01
Trichloroethylene (TCE)	7.0E-01	GW-2	7.0E-01	na	1.4E+00	8.0E+00	na	5.0E-01
1,2,3-Trichloropropane	2.0E+01	GW-4	na	na	2.0E+01	na	na	1.0E+00
Vinyl chloride	1.8E-01	GW-2	1.8E-01	na	3.3E-01	na	na	2.0E-02
Total xylenes	1.1E+02	GW-2	1.1E+02	na	3.2E+02	na	na	1.0E+00
Petroleum Hydrocarbons								
Gasoline range hydrocarbons, fresh	8.0E+02	GW-2	8.0E+02	na	na	na	na	1.0E+02
Diesel range hydrocarbons, weathered	5.0E+02	GW-2	5.0E+02	na	na	na	na	5.0E+01
Oil range hydrocarbons	5.0E+02	GW-2	5.0E+02	na	na	na	na	2.5E+02
Total diesel & oil range hydrocarbons	5.0E+02	GW-2	5.0E+02	na	na	na	na	2.5E+02

Table I.4.A. Derivation of Proposed RI CULs - Groundwater

South Park Marina Site, Seattle, Washington

			GW-2	GW-3	GW-4	VI	GW-5	PQL
Chemical (all concentrations in ug/L)	**Proposed RI CUL**	**Source of CUL**	**Protect Surface Water** SW	**Protect Sediment** Partit	**Protect Indoor Air** VI	**TCE Short-Term Action Level for Cardiac Birth Defects Unrestricted** VI Guidance	**Natural Background**	**RIWP Addendum SAP/QAPP**
Pesticides								
Aldrin	6.3E-04	GW-2, PQL Adj.	4.1E-08	1.1E-04	na	na	na	6.3E-04
alpha-BHC (alpha-HCH)	6.3E-04	GW-2, PQL Adj.	4.8E-05	na	na	na	na	6.3E-04
delta-BHC (delta-HCH)	na	na	na	na	na	na	na	6.3E-04
cis-Chlordane (alpha)	6.3E-04	GW-3, PQL Adj.	na	7.8E-05	na	na	na	6.3E-04
trans-Chlordane (gamma)	6.3E-04	GW-3, PQL Adj.	na	7.8E-05	na	na	na	6.3E-04
4,4'-DDD	1.3E-03	GW-2, PQL Adj.	7.9E-06	na	na	na	na	1.3E-03
4,4'-DDE	1.3E-03	GW-2, PQL Adj.	8.8E-07	na	na	na	na	1.3E-03
4,4'-DDT	1.3E-03	GW-2, PQL Adj.	1.2E-06	7.8E-06	na	na	na	1.3E-03
Dieldrin	1.3E-03	GW-2, PQL Adj.	7.0E-08	2.1E-04	na	na	na	1.3E-03
Endosulfan I	8.7E-03	GW-2	8.7E-03	na	na	na	na	6.3E-04
Endrin	2.0E-03	GW-2	2.0E-03	na	na	na	na	1.3E-03
Endrin aldehyde	3.5E-02	GW-2	3.5E-02	na	na	na	na	1.3E-03
Heptachlor	6.3E-04	GW-2, PQL Adj.	3.4E-07	5.5E-04	5.1E-01	na	na	6.3E-04
Heptachlor epoxide	6.3E-04	GW-2, PQL Adj.	2.4E-06	1.7E+00	na	na	na	6.3E-04

Notes:

Red text indicates values have been modified from the Preliminary RI Screening Levels (Table I.1.A). Refer to Section 6.2 of the RI Report for a description of the derivation process for Proposed RI CULs.

RI - Remedial Investigation

CUL = cleanup level

PQL - practical quantitation limit

TEQ - toxic equivalancy

na - no applicable screening level

ug/L - micrograms per liter

Table I.4.B. Derivation of Proposed RI CULs - Vadose and Saturated Soil

South Park Marina Site, Seattle, Washington

					SL-1	SL-3	SL-4	SL-6	SL-7	SL-8	SL-9	SL-10	PQL
Chemical (all concentrations in mg/kg)	**Proposed RI CUL for Vadose Zone Soil**	**Source of Proposed RI CUL**	**Proposed RI CUL for Saturated Zone Soil**	**Source of Proposed RI CUL**	**Direct Contact Unrestricted** SL-Det	**Protect Surface Water via Ground Water Vadose Zone** Leach	**Protect Sediment via Ground Water Vadose Zone** Leach	**Protect Surface Water via Ground Water Saturated Zone** Leach	**Protect Sediment via Ground Water Saturated Zone** Leach	**Protect Sediment via Erosion Min. ROD CUL + SMS Lower Tier** Sed	**Site-Specific TEE Industrial / Commercial** SL-Det	**Natural Background** (Ecology, 1994)	**RIWP Addendum SAP/QAPP**
Polychlorinated Biphenyls (PCBs)													
Total PCB Aroclors	3.6E-02	SL-3, PQL Adj.	3.6E-02	SL-6, PQL Adj.	1.0E+00	1.1E-05	2.1E-03	5.5E-07	1.1E-04	2.0E-03	6.5E-01	na	3.6E-02
Total PCB congeners	1.8E-04	SL-3, PQL Adj.	1.8E-04	SL-6, PQL Adj.	1.0E+00	1.1E-05	3.7E-03	5.5E-07	1.8E-04	3.5E-03	6.5E-01	na	1.8E-04
Total PCB TEQ	7.0E-07	SL-3, PQL Adj.	7.0E-07	SL-6, PQL Adj.	1.3E-05	6.9E-09	7.4E-07	3.5E-10	3.7E-08	7.0E-07	na	na	7.0E-07
Dioxins/Furans													
Total dioxin/furan TEQ	5.7E-06	SL-3, PQL Adj.	5.7E-06	SL-6, PQL Adj.	1.3E-05	2.5E-08	2.1E-06	1.3E-09	1.1E-07	2.0E-06	2.0E-06	5.2E-06	5.7E-06
2,3,7,8-TCDD	5.2E-06	SL-10	5.2E-06	SL-10	1.3E-05	2.5E-08	2.5E-05	1.3E-09	1.2E-06	2.3E-05	2.9E-07	5.2E-06	5.0E-07
Metals													
Arsenic	7.3E+00	SL-10	7.3E+00	SL-10	3.1E-02	4.7E+00	1.3E+02	2.3E-01	6.5E+00	7.0E+00	1.3E+02	7.3E+00	2.0E-01
Barium	2.5E+02	SL-10	2.5E+02	SL-10	1.6E+04	1.6E+02	na	8.3E+00	na	na	1.0E+02	2.5E+02	2.0E-01
Cadmium	5.1E+00	SL-8	5.1E+00	SL-8	8.0E+01	Pathway Incomplete	Pathway Incomplete	Pathway Incomplete	Pathway Incomplete	5.1E+00	1.4E+01	7.7E-01	2.0E-01
Chromium, total	6.7E+01	SL-9	6.7E+01	SL-9	na	na	na	na	na	2.6E+02	6.7E+01	4.8E+01	5.0E-01
Chromium, trivalent	5.5E+02	SL-3	2.7E+01	SL-6	1.2E+05	5.5E+02	na	2.7E+01	na	na	na	na	na
Chromium, hexavalent	4.4E-02	SL-3	2.2E-03	SL-6	1.2E+00	4.4E-02	na	2.2E-03	na	na	na	na	na
Copper	3.6E+01	SL-10	3.6E+01	SL-10	3.2E+03	1.4E+00	6.1E+00	6.9E-02	3.0E-01	3.9E+02	2.2E+02	3.6E+01	1.0E+00
Lead	1.2E+02	SL-9	1.2E+02	SL-9	2.5E+02	1.6E+03	3.9E+03	Pathway Incomplete	Pathway Incomplete	4.5E+02	1.2E+02	2.4E+01	2.0E-01
Mercury, inorganic	4.1E-01	SL-8	4.1E-01	SL-8	na	Pathway Incomplete	Pathway Incomplete	Pathway Incomplete	Pathway Incomplete	4.1E-01	5.5E+00	7.0E-02	2.5E-02
Nickel	4.8E+01	SL-10	4.8E+01	SL-10	1.6E+03	1.1E+01	na	5.4E-01	na	na	9.8E+02	4.8E+01	2.0E-01
Selenium	7.8E-01	SL-10	7.8E-01	SL-10	4.0E+02	7.4E+00	na	3.8E-01	na	na	3.0E-01	7.8E-01	5.0E-01
Zinc	1.0E+02	SL-3	8.5E+01	SL-10	2.4E+04	1.0E+02	9.6E+02	5.0E+00	4.8E+01	4.1E+02	3.6E+02	8.5E+01	1.0E+00
Metals - Butyltins													
Trybutyl tin	na	na	na	na	na	Pathway Incomplete	Pathway Incomplete	Pathway Incomplete	Pathway Incomplete	na	na	na	3.9E-03
Tributyltin oxide	3.9E-03	SL-8, PQL Adj.	3.9E-03	SL-8, PQL Adj.	2.4E+01	Pathway Incomplete	Pathway Incomplete	Pathway Incomplete	Pathway Incomplete	2.1E-03	na	na	3.9E-03
Polycyclic Aromatic Hydrocarbons (PAHs)													
Acenaphthene	5.0E-01	SL-8	5.0E-01	SL-8	4.8E+03	3.1E+00	5.4E-01	Pathway Incomplete	Pathway Incomplete	5.0E-01	1.3E+02	na	5.0E-04
Anthracene	9.6E-01	SL-8	9.6E-01	SL-8	2.4E+04	4.7E+01	1.0E+00	Pathway Incomplete	Pathway Incomplete	9.6E-01	2.1E+02	na	5.0E-04
Benzo(a)anthracene	7.3E-01	SL-9	7.3E-01	SL-9	na	na	na	na	na	1.3E+00	7.3E-01	na	5.0E-04
Benzo(b)fluoranthene	4.4E+01	SL-9	4.4E+01	SL-9	na	na	na	na	na	na	4.4E+01	na	5.0E-04
Benzo(k)fluoranthene	7.1E+01	SL-9	7.1E+01	SL-9	na	na	na	na	na	na	7.1E+01	na	5.0E-04
Total benzofluoranthenes	1.1E+00	SL-9	1.1E+00	SL-9	na	na	na	na	na	3.2E+00	1.1E+00	na	na
Benzo(g,h,i)perylene	6.7E-01	SL-8	6.7E-01	SL-8	na	na	na	na	na	6.7E-01	2.5E+01	na	5.0E-04
Benzo(a)pyrene	5.0E-04	SL-3, PQL Adj.	5.0E-04	SL-6, PQL Adj.	1.9E-01	3.1E-04	1.7E+00	1.6E-05	8.4E-02	1.6E+00	1.2E+01	na	5.0E-04
Chrysene	1.4E+00	SL-8	1.4E+00	SL-8	na	na	na	na	na	1.4E+00	3.1E+00	na	5.0E-04
Dibenz(a,h)anthracene	2.3E-01	SL-8	2.3E-01	SL-8	na	na	na	na	na	2.3E-01	1.4E+01	na	5.0E-04
Dibenzofuran	5.4E-01	SL-8	5.4E-01	SL-8	8.0E+01	na	5.8E-01	Pathway Incomplete	Pathway Incomplete	5.4E-01	na	na	2.5E-03
Fluoranthene	1.7E+00	SL-8	1.7E+00	SL-8	3.2E+03	5.9E+00	1.8E+00	Pathway Incomplete	Pathway Incomplete	1.7E+00	2.2E+01	na	5.0E-04
Fluorene	5.4E-01	SL-8	5.4E-01	SL-8	3.2E+03	Pathway Incomplete	Pathway Incomplete	Pathway Incomplete	Pathway Incomplete	5.4E-01	2.5E+02	na	5.0E-04
Indeno(1,2,3-cd)pyrene	6.0E-01	SL-8	6.0E-01	SL-8	na	na	na	na	na	6.0E-01	7.1E+01	na	5.0E-04
1-Methylnaphthalene	2.0E+01	SL-1	2.0E+01	SL-1	2.0E+01	na	na	Pathway Incomplete	Pathway Incomplete	na	1.0E+02	na	5.0E-04
2-Methylnaphthalene	6.7E-01	SL-8	6.7E-01	SL-8	3.2E+02	na	7.5E-01	Pathway Incomplete	Pathway Incomplete	6.7E-01	1.6E+01	na	5.0E-04
Naphthalene	2.1E+00	SL-8	2.1E+00	SL-8	1.6E+03	Pathway Incomplete	Pathway Incomplete	Pathway Incomplete	Pathway Incomplete	2.1E+00	3.4E+00	na	5.0E-04
Phenanthrene	1.5E+00	SL-8	1.5E+00	SL-8	na	na	na	na	na	1.5E+00	1.1E+01	na	5.0E-04

Table I.4.B. Derivation of Proposed RI CULs - Vadose and Saturated Soil

South Park Marina Site, Seattle, Washington

					SL-1	SL-3	SL-4	SL-6	SL-7	SL-8	SL-9	SL-10	PQL
Chemical (all concentrations in mg/kg)	**Proposed RI CUL for Vadose Zone Soil**	**Source of Proposed RI CUL**	**Proposed RI CUL for Saturated Zone Soil**	**Source of Proposed RI CUL**	**Direct Contact Unrestricted** SL-Det	**Protect Surface Water via Ground Water Vadose Zone** Leach	**Protect Sediment via Ground Water Vadose Zone** Leach	**Protect Surface Water via Ground Water Saturated Zone** Leach	**Protect Sediment via Ground Water Saturated Zone** Leach	**Protect Sediment via Erosion Min. ROD CUL + SMS Lower Tier** Sed	**Site-Specific TEE Industrial / Commercial** SL-Det	**Natural Background** (Ecology, 1994)	**RIWP Addendum SAP/QAPP**
Polycyclic Aromatic Hydrocarbons (PAHs)													
Pyrene	2.6E+00	SL-8	2.6E+00	SL-8	2.4E+03	1.1E+01	2.7E+00	Pathway Incomplete	Pathway Incomplete	2.6E+00	2.3E+01	na	5.0E-04
Total LPAHs	5.2E+00	SL-8	5.2E+00	SL-8	na	na	na	na	na	5.2E+00	1.0E+02	na	na
Total HPAHs	1.1E+00	SL-9	1.1E+00	SL-9	na	na	na	na	na	1.2E+01	1.1E+00	na	na
Total cPAH TEQ	7.6E-04	SL-3, PQL Adj.	7.6E-04	SL-6, PQL Adj.	1.9E-01	3.1E-04	6.2E-01	1.6E-05	3.1E-02	5.9E-01	na	na	7.6E-04
Semivolatile Organic Compounds (SVOCs)													
Benzoic acid	6.5E-01	SL-8	6.5E-01	SL-8	3.2E+05	na	2.4E+00	Pathway Incomplete	Pathway Incomplete	6.5E-01	1.0E+00	na	1.3E-01
Benzyl alcohol	5.7E-02	SL-8	5.7E-02	SL-8	8.0E+03	Pathway Incomplete	Pathway Incomplete	Pathway Incomplete	Pathway Incomplete	5.7E-02	1.2E+02	na	2.5E-02
Bis(2-ethylhexyl) phthalate	4.0E-02	SL-9, PQL Adj.	4.0E-02	SL-6, PQL Adj.	7.1E+01	1.0E-01	1.4E+00	5.1E-03	6.9E-02	1.3E+00	2.0E-02	na	4.0E-02
Butyl benzyl phthalate	6.3E-02	SL-8	6.3E-02	SL-8	5.3E+02	Pathway Incomplete	Pathway Incomplete	Pathway Incomplete	Pathway Incomplete	6.3E-02	9.0E+01	na	2.5E-02
Dibutyl phthalate	2.5E-02	SL-9, PQL Adj.	2.5E-02	SL-9, PQL Adj.	8.0E+03	Pathway Incomplete	Pathway Incomplete	Pathway Incomplete	Pathway Incomplete	1.4E+00	1.1E-02	na	2.5E-02
1,2-Dichlorobenzene	5.0E-02	SL-8, PQL Adj.	5.0E-02	SL-8, PQL Adj.	7.2E+03	Pathway Incomplete	Pathway Incomplete	Pathway Incomplete	Pathway Incomplete	3.5E-02	9.2E-01	na	5.0E-02
1,3-Dichlorobenzene	5.0E-02	SL-3, PQL Adj.	7.4E-01	SL-9	na	2.3E-02	na	Pathway Incomplete	Pathway Incomplete	na	7.4E-01	na	5.0E-02
1,4-Dichlorobenzene	1.1E-01	SL-8	1.1E-01	SL-8	1.9E+02	9.8E-01	1.5E-01	Pathway Incomplete	Pathway Incomplete	1.1E-01	8.9E-01	na	5.0E-02
Diethyl phthalate	2.0E-01	SL-8	2.0E-01	SL-8	6.4E+04	Pathway Incomplete	Pathway Incomplete	Pathway Incomplete	Pathway Incomplete	2.0E-01	3.6E+03	na	2.5E-02
Dimethyl phthalate	7.1E-02	SL-8	7.1E-02	SL-8	na	Pathway Incomplete	Pathway Incomplete	Pathway Incomplete	Pathway Incomplete	7.1E-02	3.8E+01	na	2.5E-02
2,4-Dimethylphenol	2.9E-02	SL-8	2.9E-02	SL-8	1.6E+03	1.3E+00	4.0E-02	Pathway Incomplete	Pathway Incomplete	2.9E-02	na	na	2.5E-02
2,4-Dinitrophenol	7.5E-02	SL-9, PQL Adj.	7.5E-02	SL-9, PQL Adj.	1.6E+02	4.0E-01	na	Pathway Incomplete	Pathway Incomplete	na	6.1E-02	na	7.5E-02
Hexachlorobenzene	2.5E-03	SL-3, PQL Adj.	2.2E-02	SL-8	6.3E-01	8.0E-06	2.3E-02	Pathway Incomplete	Pathway Incomplete	2.2E-02	1.7E+01	na	2.5E-03
Hexachlorobutadiene	1.0E-02	SL-3, PQL Adj.	1.1E-02	SL-8	1.3E+01	2.1E-04	1.4E-02	Pathway Incomplete	Pathway Incomplete	1.1E-02	4.0E-02	na	1.0E-02
Hexachloroethane	6.0E-01	SL-9	6.0E-01	SL-9	2.5E+01	Pathway Incomplete	Pathway Incomplete	Pathway Incomplete	Pathway Incomplete	na	6.0E-01	na	2.5E-03
Isophorone	1.4E+02	SL-9	1.4E+02	SL-9	1.1E+03	Pathway Incomplete	Pathway Incomplete	Pathway Incomplete	Pathway Incomplete	na	1.4E+02	na	2.5E-03
2-Methylphenol (o-cresol)	6.3E-02	SL-8	6.3E-02	SL-8	4.0E+03	Pathway Incomplete	Pathway Incomplete	Pathway Incomplete	Pathway Incomplete	6.3E-02	5.8E+02	na	2.5E-02
n-Nitrosodiphenylamine	2.8E-02	SL-8	2.8E-02	SL-8	2.0E+02	Pathway Incomplete	Pathway Incomplete	Pathway Incomplete	Pathway Incomplete	2.8E-02	5.5E-01	na	2.5E-03
Pentachlorophenol	3.6E-01	SL-8	3.6E-01	SL-8	2.5E+00	Pathway Incomplete	Pathway Incomplete	Pathway Incomplete	Pathway Incomplete	3.6E-01	4.5E+00	na	1.3E-02
1,2,4-Trichlorobenzene	3.1E-02	SL-8	3.1E-02	SL-8	3.4E+01	Pathway Incomplete	Pathway Incomplete	Pathway Incomplete	Pathway Incomplete	3.1E-02	2.7E-01	na	1.0E-02
2,4,6-Trichlorophenol	9.9E+00	SL-9	9.9E+00	SL-9	8.0E+01	Pathway Incomplete	Pathway Incomplete	Pathway Incomplete	Pathway Incomplete	na	9.9E+00	na	2.5E-02
Volatile Organic Compounds (VOCs)													
Benzene	8.8E-03	SL-3	1.0E-03	SL-6, PQL Adj.	1.8E+01	8.8E-03	na	5.6E-04	na	na	2.4E+01	na	1.0E-03
Bromomethane	2.4E-01	SL-9	2.4E-01	SL-9	1.1E+02	1.2E+00	na	Pathway Incomplete	Pathway Incomplete	na	2.4E-01	na	1.0E-01
Chlorobenzene	1.7E+00	SL-3	4.3E+01	SL-9	1.6E+03	1.7E+00	na	Pathway Incomplete	Pathway Incomplete	na	4.3E+01	na	5.0E-02
cis-1,2-Dichloroethylene	2.4E+01	SL-9	2.4E+01	SL-9	1.6E+02	na	na	na	na	na	2.4E+01	na	1.0E-03
trans-1,2-Dichloroethylene	7.8E-01	SL-9	3.2E-01	SL-6	1.6E+03	5.2E+00	na	3.2E-01	na	na	7.8E-01	na	1.0E-02
Ethylbenzene	5.2E+00	SL-9	5.2E+00	SL-9	8.0E+03	Pathway Incomplete	Pathway Incomplete	Pathway Incomplete	Pathway Incomplete	na	5.2E+00	na	1.0E-03
Methylene chloride	4.3E-01	SL-3	2.6E+00	SL-9	9.4E+01	4.3E-01	na	Pathway Incomplete	Pathway Incomplete	na	2.6E+00	na	1.0E-01
Tetrachloroethylene (PCE)	2.9E-02	SL-3	1.6E-03	SL-6	4.8E+02	2.9E-02	na	1.6E-03	na	na	1.8E-01	na	1.0E-03
Toluene	2.3E+01	SL-9	2.3E+01	SL-9	6.4E+03	Pathway Incomplete	Pathway Incomplete	Pathway Incomplete	Pathway Incomplete	na	2.3E+01	na	1.0E-03
1,1,2-Trichloroethane	1.8E+01	SL-1	1.8E+01	SL-1	1.8E+01	Pathway Incomplete	Pathway Incomplete	Pathway Incomplete	Pathway Incomplete	na	2.9E+01	na	5.0E-03
Trichloroethylene (TCE)	4.4E-03	SL-3	1.0E-03	SL-6, PQL Adj.	1.2E+01	4.4E-03	na	2.7E-04	na	na	4.2E+01	na	1.0E-03
1,2,3-Trichloropropane	5.0E-02	SL-1, PQL Adj.	5.0E-02	SL-1, PQL Adj.	6.3E-03	Pathway Incomplete	Pathway Incomplete	Pathway Incomplete	Pathway Incomplete	na	3.4E+00	na	5.0E-02
Vinyl chloride	1.1E-03	SL-3	1.0E-03	SL-6, PQL Adj.	6.7E-01	1.1E-03	na	5.6E-05	na	na	1.2E-01	na	1.0E-03
Total xylenes	1.4E+00	SL-9	1.4E+00	SL-9	1.6E+04	Pathway Incomplete	Pathway Incomplete	Pathway Incomplete	Pathway Incomplete	na	1.4E+00	na	2.0E-03

Table I.4.B. Derivation of Proposed RI CULs - Vadose and Saturated Soil

South Park Marina Site, Seattle, Washington

					SL-1	SL-3	SL-4	SL-6	SL-7	SL-8	SL-9	SL-10	PQL
Chemical (all concentrations in mg/kg)	**Proposed RI CUL for Vadose Zone Soil**	**Source of Proposed RI CUL**	**Proposed RI CUL for Saturated Zone Soil**	**Source of Proposed RI CUL**	**Direct Contact Unrestricted** SL-Det	**Protect Surface Water via Ground Water Vadose Zone** Leach	**Protect Sediment via Ground Water Vadose Zone** Leach	**Protect Surface Water via Ground Water Saturated Zone** Leach	**Protect Sediment via Ground Water Saturated Zone** Leach	**Protect Sediment via Erosion Min. ROD CUL + SMS Lower Tier** Sed	**Site-Specific TEE Industrial / Commercial** SL-Det	**Natural Background** (Ecology, 1994)	**RIWP Addendum SAP/QAPP**
Petroleum Hydrocarbons													
Gasoline range hydrocarbons, fresh	3.0E+01	SL-3	3.0E+01	SL-6	1.5E+03	3.0E+01	na	3.0E+01	na	na	5.0E+03	na	2.0E+00
Gasoline range hydrocarbons, weathered	1.0E+02	SL-3	1.0E+02	SL-6	1.5E+03	1.0E+02	na	1.0E+02	na	na	5.0E+03	na	2.0E+00
Diesel range hydrocarbons, fresh	2.0E+03	SL-3	2.0E+03	SL-6	na	2.0E+03	na	2.0E+03	na	na	6.0E+03	na	1.0E+01
Diesel range hydrocarbons, weathered	2.0E+03	SL-3	2.0E+03	SL-6	na	2.0E+03	na	2.0E+03	na	na	6.0E+03	na	1.0E+01
Oil range hydrocarbons	2.0E+03	SL-3	2.0E+03	SL-6	na	2.0E+03	na	2.0E+03	na	na	6.0E+03	na	5.0E+01
Total diesel & oil range hydrocarbons	2.0E+03	SL-3	2.0E+03	SL-6	na	2.0E+03	na	2.0E+03	na	na	6.0E+03	na	5.0E+01
Pesticides													
Aldrin	1.7E-03	SL-3, PQL Adj.	1.7E-03	SL-6, PQL Adj.	5.9E-02	4.0E-08	1.1E-04	2.0E-09	5.3E-06	1.0E-04	1.0E-01	na	1.7E-03
alpha-BHC (alpha-HCH)	5.0E-04	SL-3, PQL Adj.	5.0E-04	SL-6, PQL Adj.	1.6E-01	1.9E-06	na	9.8E-08	na	na	6.0E+00	na	5.0E-04
delta-BHC (delta-HCH)	4.8E-03	SL-1	4.8E-03	SL-1	4.8E-03	na	na	na	na	na	6.0E+00	na	5.0E-04
cis-Chlordane (alpha)	5.0E-04	SL-8, PQL Adj.	5.0E-04	SL-8, PQL Adj.	4.0E+01	Pathway Incomplete	Pathway Incomplete	Pathway Incomplete	Pathway Incomplete	1.0E-04	2.7E+00	na	5.0E-04
trans-Chlordane (gamma)	1.7E-03	SL-8, PQL Adj.	1.7E-03	SL-7, PQL Adj.	4.0E+01	na	1.1E-04	na	5.3E-06	1.0E-04	2.7E+00	na	1.7E-03
4,4'-DDD	7.5E-01	SL-9	7.5E-01	SL-9	4.2E+00	Pathway Incomplete	Pathway Incomplete	Pathway Incomplete	Pathway Incomplete	na	7.5E-01	na	1.0E-03
4,4'-DDE	1.0E-03	SL-3, PQL Adj.	1.0E-03	SL-6, PQL Adj.	2.9E+00	1.5E-06	na	7.6E-08	na	na	7.5E-01	na	1.0E-03
4,4'-DDT	1.0E-03	SL-3, PQL Adj.	1.0E-03	SL-6, PQL Adj.	2.9E+00	1.6E-05	1.1E-04	8.1E-07	5.3E-06	1.0E-04	7.5E-01	na	1.0E-03
Dieldrin	1.0E-03	SL-3, PQL Adj.	1.0E-03	SL-6, PQL Adj.	6.3E-02	3.6E-08	1.1E-04	1.8E-09	5.3E-06	1.0E-04	7.0E-02	na	1.0E-03
Endrin	2.0E-01	SL-9	2.0E-01	SL-9	2.4E+01	Pathway Incomplete	Pathway Incomplete	Pathway Incomplete	Pathway Incomplete	na	2.0E-01	na	1.0E-03
Endrin aldehyde	2.4E-03	SL-3	1.1E-02	SL-9	na	2.4E-03	na	Pathway Incomplete	Pathway Incomplete	na	1.1E-02	na	1.0E-03
Heptachlor	5.0E-04	SL-3, PQL Adj.	5.0E-04	SL-8, PQL Adj.	2.2E-01	6.6E-08	1.1E-04	Pathway Incomplete	Pathway Incomplete	1.0E-04	4.0E-01	na	5.0E-04
Heptachlor epoxide	5.0E-04	SL-3, PQL Adj.	1.1E-01	SL-1	1.1E-01	4.9E-07	3.4E-01	Pathway Incomplete	Pathway Incomplete	3.2E-01	4.0E-01	na	5.0E-04

Notes:

Vadose zone soil is defined as soil between 0 and 6 feet below ground surface; saturated soil is defined as soil 6 or more feet below ground surface.

Red text indicates values have been modified from the Preliminary RI Screening Levels (Table I.2.D). Refer to Section 6.2 of the RI Report for a description of the derivation process for Proposed RI CULs.

RI - Remedial Investigation

CUL - Cleanup Level

PQL - practical quantitation limit

TEE - terrestrial ecological evaluation

TEQ - toxic equivalancy

na - no applicable screening level

mg/kg - milligrams per kilogram

Table I.4.C. Derivation of Proposed RI CULs - Soil Gas and Indoor Air

South Park Marina Site, Seattle, Washington

		Subslab Soil Gas		Indoor Air	
Analyte	**Unit**	**MTCA Method B Unrestrictued Use Proposed RI SL**	**Adjusted Commercial Worker Exposure Proposed RI SL**	**MTCA Method B Unrestricted Use Proposed RI CUL**	**Adjusted Commercial Worker Exposure Proposed RI SL**
Volatile Organic Compounds					
Tetrachloroethene (PCE)	ug/m^3	320	1,500	9.6	45
Trichloroethene (TCE)	ug/m^3	11	95	0.33	2.8

Notes:

RI - Remedial Investigation

CUL - cleanup level

SL - screening level

MTCA - Model Toxics Control Act

ug/m^3 - micrograms per cubic meter

APPENDIX I.5

Summary Statistics for COPCs by Media - Tables I.5.A through I.5.E - Groundwater, Vadose Soil, Saturated Soil, Soil Gas, and Indoor Air

Table I.5.A. Summary Statistics for COPCs by Media - Groundwater

South Park Marina Site, Seattle, Washington

Analyte	Number of Samples	Number of Samples with Detected Conc.	Frequency of Detection	Units	Min. Detected Conc.	Median Detected Conc.	Max. Detected Conc.	Proposed RI CUL	Number of Detected Exceedances	Frequency of Exceedance	Max. Exceedance Factor
Metals, Total											
Arsenic	55	51	93%	ug/L	0.267	2.23	30.4	8.0	9	16%	3.8
Cadmium	55	12	22%	ug/L	0.013	0.0615	0.466	1.2	0	--	0.4
Chromium	55	41	75%	ug/L	0.342	1.6	5760	27	6	11%	213
Copper	55	50	91%	ug/L	0.662	4.12	18.8	3.1	35	64%	6.1
Lead	55	24	44%	ug/L	0.046	0.479	4.67	8.1	0	--	0.6
Mercury	45	22	49%	ug/L	0.00083	0.00146	0.0156	0.025	0	--	0.6
Nickel	49	48	98%	ug/L	0.366	4.27	207	8.2	15	31%	25
Zinc	55	49	89%	ug/L	0.888	5.46	1830	81	2	4%	23
Metals, Dissolved											
Arsenic	52	48	92%	ug/L	0.254	2.59	22.4	8.0	9	17%	2.8
Cadmium	52	10	19%	ug/L	0.026	0.0905	0.369	1.2	0	--	0.3
Chromium	52	40	77%	ug/L	0.289	1.19	28.6	27	1	2%	1.1
Copper	52	51	98%	ug/L	0.297	3.44	35.5	3.1	31	60%	11
Lead	52	19	37%	ug/L	0.021	0.183	1.99	8.1	0	--	0.2
Mercury	39	22	56%	ug/L	0.0008	0.00125	0.0037	0.025	0	--	0.1
Nickel	49	49	100%	ug/L	0.272	4.25	206	8.2	15	31%	25
Zinc	52	49	94%	ug/L	0.795	5.2	1490	81	1	2%	18
Metals, Total, Prepared Using Reductive Precipitation											
Arsenic	11	2	18%	ug/L	0.69	0.86	1.03	8.0	0	--	0.1
Cadmium	11	8	73%	ug/L	0.025	0.0685	0.251	1.2	0	--	0.2
Chromium	11	8	73%	ug/L	0.55	0.795	1370	27	2	18%	51
Copper	11	10	91%	ug/L	0.48	2.5	8.98	3.1	4	36%	2.9
Lead	11	6	55%	ug/L	0.052	0.615	2.37	8.1	0	--	0.3
Nickel	11	11	100%	ug/L	1.23	5.08	40.1	8.2	3	27%	4.9
Zinc	11	10	91%	ug/L	0.7	4.4	39.1	81	0	--	0.5
Metals, Dissolved, Prepared Using Reductive Precipitation											
Arsenic	11	0	0%	ug/L	--	--	--	8.0	0	--	--
Cadmium	11	7	64%	ug/L	0.023	0.075	0.252	1.2	0	--	0.2
Chromium	11	10	91%	ug/L	0.31	0.625	94.6	27	1	9%	3.5
Copper	11	11	100%	ug/L	0.28	1.94	8.98	3.1	2	18%	2.9
Lead	11	4	36%	ug/L	0.071	0.412	1.55	8.1	0	--	0.2
Nickel	11	11	100%	ug/L	1.19	5.4	41.7	8.2	4	36%	5.1
Zinc	11	9	82%	ug/L	0.7	4.96	37.9	81	0	--	0.5
Butyl Tins											
Tributyltin Ion	35	0	0%	ug/L	--	--	--	0.0052	0	--	--
Polychlorinated Biphenyl (PCB) Aroclors											
Total PCB Aroclors (ND = 0)	47	13	28%	ug/L	0.003	0.103	17	0.0035	12	26%	4,857
Polychlorinated Biphenyl (PCB) Congeners											
Total PCB Congeners (ND = 0)	5	5	100%	ug/L	3.74E-05	2.88E-03	3.04E-01	4.20E-04	4	80%	724
Total PCB TEQ (ND = 0)	5	4	80%	ug/L	7.21E-10	1.35E-06	4.70E-06	1.50E-07	2	40%	31
Dioxins/Furans											
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	7	5	71%	ug/L	1.00E-06	1.60E-06	2.88E-05	5.70E-05	0	--	0.5
2,3,7,8-TCDD	7	1	14%	ug/L	1.10E-06	1.10E-06	1.10E-06	5.00E-06	0	--	0.2
Polycyclic Aromatic Hydrocarbons (PAHs)											
1-Methylnaphthalene	38	9	24%	ug/L	0.002	0.003	2.63	0.17	2	5%	15
2-Methylnaphthalene	41	7	17%	ug/L	0.003	0.003	0.441	14	0	--	--
Benzo(g,h,i)perylene	41	2	5%	ug/L	0.002	0.002	0.002	--	0	--	--
Fluoranthene	41	8	20%	ug/L	0.002	0.012	0.18	1.8	0	--	0.1
Pyrene	41	5	12%	ug/L	0.002	0.051	0.3	2	0	--	0.1
Benz(a)anthracene	41	3	7%	ug/L	0.007	0.024	0.052	0.01	2	5%	5.2
Benzo(a)pyrene	41	3	7%	ug/L	0.003	0.017	0.046	0.01	2	5%	4.6
Benzo(b)fluoranthene	41	3	7%	ug/L	0.003	0.018	0.056	0.01	2	5%	5.6
Benzo(k)fluoranthene	41	1	2%	ug/L	0.018	0.018	0.018	0.01	1	2%	1.8
Chrysene	41	6	15%	ug/L	0.002	0.0065	0.092	0.016	2	5%	5.8
Dibenzo(a,h)anthracene	41	0	0%	ug/L	--	--	--	0.01	0	--	--
Indeno(1,2,3-cd)pyrene	41	2	5%	ug/L	0.001	0.008	0.015	0.01	1	2%	1.5
Total Benzofluoranthenes	41	3	7%	ug/L	0.006	0.023	0.074	--	0	--	--
Total HPAHs (ND = 1/2 RDL)	41	8	20%	ug/L	0.049	0.0665	0.774	--	0	--	--
Total cPAHs TEQ (ND = 1/2 RDL)	41	6	15%	ug/L	0.00521	0.00752	0.0615	0.015	2	5%	4.1
Other Semivolatile Organic Compounds (SVOCs)											
2-Methylphenol	38	1	3%	ug/L	0.06	0.06	0.06	9.8	0	--	--
2,4-Dimethylphenol	38	0	0%	ug/L	--	--	--	2.9	0	--	--
Benzyl alcohol	38	0	0%	ug/L	--	--	--	56	0	--	--
Benzyl butyl phthalate	38	0	0%	ug/L	--	--	--	1	0	--	--
Bis(2-ethylhexyl) phthalate	38	4	11%	ug/L	0.6	1.1	2.6	0.2	4	11%	13
Di-n-butyl phthalate	38	5	13%	ug/L	0.05	0.08	0.5	8	0	--	0.1
Diethyl phthalate	38	6	16%	ug/L	0.036	0.0645	1.4	93	0	--	--
Dimethyl phthalate	38	0	0%	ug/L	--	--	--	59	0	--	--
Hexachlorobenzene	39	0	0%	ug/L	--	--	--	0.1	0	--	--
N-Nitrosodiphenylamine	38	2	5%	ug/L	0.3	0.35	0.4	0.55	0	--	0.7
Pentachlorophenol	38	0	0%	ug/L	--	--	--	0.5	0	--	--
Pesticides											
4,4'-DDE	41	1	2%	ug/L	0.014	0.014	0.014	0.0013	1	2%	11
4,4'-DDT	41	3	7%	ug/L	0.00082	0.0014	0.0022	0.0013	2	5%	1.7
Aldrin	41	9	22%	ug/L	0.0012	0.0053	0.78	0.00063	9	22%	1,238
Alpha-BHC	35	4	11%	ug/L	0.0027	0.0032	0.0038	0.00063	4	11%	6
cis-Chlordane	38	0	0%	ug/L	--	--	--	0.00063	0	--	--
Delta-BHC	35	0	0%	ug/L	--	--	--	--	0	--	--
Dieldrin	41	15	37%	ug/L	0.00071	0.0265	0.11	0.0013	14	34%	85
Heptachlor	41	0	0%	ug/L	--	--	--	0.00063	0	--	--
trans-Chlordane	38	0	0%	ug/L	--	--	--	0.00063	0	--	--
Total Petroleum Hydrocarbons (TPH)											
Gasoline-Range Organics	41	5	12%	ug/L	101	282	470	800	0	--	0.6
Diesel-Range Organics	44	13	30%	ug/L	55	140	4430	500	5	11%	8.9
Motor Oil-Range Organics	44	6	14%	ug/L	380	892	1400	500	5	11%	2.8
Diesel and Oil Extended-Range Organics	44	13	30%	ug/L	55	140	5350	500	6	14%	11
Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX)											
Ethylbenzene	55	1	2%	ug/L	0.46	0.46	0.46	21	0	--	--
Total Xylenes	55	1	2%	ug/L	2.72	2.72	2.72	110	0	--	--
1,2-Dibromoethane (EDB)	55	0	0%	ug/L	--	--	--	0.3	0	--	--
1,2,3-Trichlorobenzene	55	0	0%	ug/L	--	--	--	--	0	--	--
Methyl tert-butyl ether (MTBE)	49	0	0%	ug/L	--	--	--	860	0	--	--
tert-Butylbenzene	55	1	2%	ug/L	0.09	0.09	0.09	--	0	--	--
trans-1,3-Dichloropropene	55	0	0%	ug/L	--	--	--	1.2	0	--	--
Vinyl Acetate	12	0	0%	ug/L	--	--	--	8100	0	--	--
Vinyl Chloride	55	10	18%	ug/L	0.023	0.505	12	0.18	8	15%	67
Conventionals											
Total Organic Carbon	8	8	100%	ug/L	890	3510	14240	--	0	--	--
Total Suspended Solids	51	23	45%	mg/L	4	7.6	73	--	0	--	--

Notes:

COPC - chemical of potential concern

Proposed RI CUL - Proposed Remdial Investigation Cleanup Level

Exceedanace Factor - Maximum detected concentration divided by the Proposed RI CUL

-- - not detected or no detections exceed Proposed RI CUL

ug/L - micrograms per liter

ND = 0 - calculated using zero for non-detect values

ND = 1/2 RDL - calculated using one-half the reported detection limit (RDL) for non-detect values

TEQ - toxic equivalency

HPAHs = high molecular weight polycyclic aromatic hydrocarbons: fluoranthene, pyrene, benz(a)anthracene, chrysene, total benzofluoranthenes, benzo(a)pyrene, indeno(1,2,3,-c,d)pyrene, dibenzo(a,h)anthracene, and benzo(g,h,i)perylene.

cPAHs = carcinogenic polycyclic aromatic hydrocarbons: benzo(a)pyrene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene.

Table I.5.B - Summary Statistics for COPCs by Media - Vadose Soil

South Park Marina Site, Seattle, Washington

Analyte	Number of Samples	Number of Samples with Detected Conc.	Frequency of Detection	Units	Minimum Detected Conc.	Median Detected Conc.	Maximum Detected Conc.	Proposed RI CUL	Number of Detected Exceedances	Frequency of Exceedance	Max. Exceedance Factor
Metals, Total											
Arsenic	90	90	100%	mg/kg	0.89	3.72	27.4	7.3	14	16%	3.8
Barium	4	4	100%	mg/kg	42.5	228	551	250	2	50%	2.2
Cadmium	90	77	86%	mg/kg	0.04	0.48	115	5.1	9	10%	23
Chromium	90	90	100%	mg/kg	5.76	14.6	615	67	15	17%	9.2
Copper	90	90	100%	mg/kg	5.39	25.6	2470	36	37	41%	69
Lead	90	90	100%	mg/kg	0.953	36.9	4640	120	32	36%	39
Mercury	81	79	98%	mg/kg	0.00523	0.058	29.5	0.41	19	23%	72
Nickel	82	82	100%	mg/kg	4.34	9.94	441	48	2	2%	9.2
Selenium	4	1	25%	mg/kg	9.46	9.46	9.46	0.78	1	25%	12
Zinc	90	90	100%	mg/kg	15.6	78	41800	100	34	38%	418
Butyl Tins											
Tributyltin Ion	64	37	58%	mg/kg	0.000478	0.00925	1.12	0.0039	24	38%	287
Polychlorinated Biphenyl Aroclors											
Total PCB Aroclors (ND = 0)	128	105	82%	mg/kg	0.00090	0.255	66	0.036	85	66%	1,833
Polychlorinated Biphenyl Congeners											
Total PCB Congeners (ND = 0)	49	49	100%	mg/kg	0.000728	0.216	107	0.00018	49	100%	594,444
Total PCB TEQ (ND = 0)	49	49	100%	mg/kg	0.00000000033	0.0000063	0.00192	0.00000070	40	82%	2,743
Dioxins/Furans											
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	21	21	100%	mg/kg	0.00000050	0.0000256	0.00637	0.0000057	14	67%	1,118
2,3,7,8-TCDD	21	12	57%	mg/kg	0.000000048	0.0000027	0.0000438	0.0000052	5	24%	8.4
Polycyclic Aromatic Hydrocarbons											
1-Methylnaphthalene	76	20	26%	mg/kg	0.00059	0.0146	0.88	20	0	--	--
2-Methylnaphthalene	84	23	27%	mg/kg	0.00052	0.0278	3.0	0.67	4	5%	4.5
Benzo(g,h,i)perylene	84	61	73%	mg/kg	0.0006	0.0358	8.5	0.67	1	1%	13
Fluoranthene	84	65	77%	mg/kg	0.0007	0.032	4.3	1.7	1	1%	2.5
Pyrene	84	67	80%	mg/kg	0.00061	0.038	5.5	2.6	1	1%	2.1
Benz(a)anthracene	84	58	69%	mg/kg	0.00064	0.018	8.7	0.73	2	2%	12
Benzo(a)pyrene	84	62	74%	mg/kg	0.00086	0.0251	22	0.0005	62	74%	44,000
Benzo(b)fluoranthene	84	60	71%	mg/kg	0.00144	0.043	28	44	0	--	0.6
Chrysene	84	64	76%	mg/kg	0.0011	0.0386	11	1.4	1	1%	7.9
Dibenzo(a,h)anthracene	84	40	48%	mg/kg	0.00123	0.00643	2.2	0.23	1	1%	9.6
Indeno(1,2,3-cd)pyrene	84	59	70%	mg/kg	0.0006	0.0226	11	0.6	1	1%	18
Total Benzofluoranthenes	84	59	70%	mg/kg	0.00261	0.065	28	1.1	2	2%	25
Total HPAHs (ND = 1/2 RDL)	84	71	85%	mg/kg	0.00286	0.26	111	1.1	9	11%	101
Total cPAHs TEQ (ND = 1/2 RDL)	84	67	80%	mg/kg	0.00165	0.0344	28.1	0.00076	67	80%	36,974
Other Semivolatile Organic Compounds											
2-Methylphenol	63	1	2%	mg/kg	0.0902	0.0902	0.0902	0.063	1	2%	1.4
2,4-Dimethylphenol	55	0	0%	mg/kg	--	--	--	0.029	0	--	--
2,4-Dinitrophenol	55	0	0%	mg/kg	--	--	--	0.075	0	--	--
Benzyl alcohol	63	6	10%	mg/kg	0.0149	0.154	0.71	0.057	4	6%	12
Benzyl butyl phthalate	63	9	14%	mg/kg	0.0096	0.0616	2.2	0.063	4	6%	35
Bis(2-ethylhexyl) phthalate	63	20	32%	mg/kg	0.0466	0.256	7.0	0.04	20	32%	175
Di-n-butyl phthalate	63	19	30%	mg/kg	0.0054	0.0648	3.6	0.025	11	17%	144
Diethyl phthalate	63	6	10%	mg/kg	0.0185	0.0378	0.982	0.2	2	3%	4.9
Dimethyl phthalate	63	16	25%	mg/kg	0.0095	0.198	2.3	0.071	11	17%	32
Hexachlorobenzene	63	0	0%	mg/kg	--	--	--	0.0025	0	--	--
N-Nitrosodiphenylamine	63	1	2%	mg/kg	0.0506	0.0506	0.0506	0.028	1	2%	1.8
Pentachlorophenol	63	15	24%	mg/kg	0.0652	0.429	14	0.36	10	16%	39
Pesticides and Herbicides											
4,4'-DDE	61	12	20%	mg/kg	0.001	0.13	0.75	0.001	11	18%	750
4,4'-DDT	61	14	23%	mg/kg	0.00087	0.0155	4	0.001	13	21%	4,000
Aldrin	61	9	15%	mg/kg	0.00079	0.24	3.5	0.0017	8	13%	2059
Alpha-BHC	53	2	4%	mg/kg	0.0052	0.0186	0.032	0.0005	2	4%	64
cis-Chlordane	53	2	4%	mg/kg	0.0087	0.0124	0.016	0.0005	2	4%	32
Delta-BHC	53	0	0%	mg/kg	--	--	--	0.0048	0	--	--
Dieldrin	61	10	16%	mg/kg	0.0021	0.415	0.92	0.001	10	16%	920
Endrin Aldehyde	53	0	0%	mg/kg	--	--	--	0.0024	0	--	--
Heptachlor	61	0	0%	mg/kg	--	--	--	0.0005	0	--	--
trans-Chlordane	53	3	6%	mg/kg	0.00065	0.014	0.014	0.0017	2	4%	8.2
Total Petroleum Hydrocarbons											
Gasoline Range Organics	73	26	36%	mg/kg	2.1	13.4	570	30	6	8%	19
Diesel Range Organics	83	40	48%	mg/kg	9.9	253	12000	2000	6	7%	6
Motor Oil Range Organics	83	53	64%	mg/kg	76	626	34000	2000	15	18%	17
Diesel and Oil Extended Range Organics	83	53	64%	mg/kg	76	723	40300	2000	17	20%	20
Benzene, Toluene, Ethylbenzene, and Total Xylenes											
Benzene	77	14	18%	mg/kg	0.00035	0.00067	0.078	0.0088	4	5%	8.9
Total Xylenes	77	15	19%	mg/kg	0.00105	0.00847	68	1.4	3	4%	49
Volatile Organic Compounds											
1,2-Dichlorobenzene	83	5	6%	mg/kg	0.0123	0.097	0.31	0.05	3	4%	6.2
1,2,3-Trichloropropane	77	1	1%	mg/kg	0.15	0.15	0.15	0.05	1	1%	3
Methylene Chloride	69	10	14%	mg/kg	0.00682	0.0302	0.34	0.43	0	--	0.8
Tetrachloroethene (PCE)	77	49	64%	mg/kg	0.00049	0.014	2.7	0.029	17	22%	93
Trichloroethene (TCE)	77	22	29%	mg/kg	0.0005	0.00215	0.17	0.0044	6	8%	39
Vinyl Chloride	77	5	6%	mg/kg	0.0014	0.0047	0.87	0.0011	5	6%	791
Conventionals											
Total Organic Carbon	68	61	90%	%	0.0516	0.366	2.98	--	0	--	--
Total Solids	60	60	100%	%	68.2785263	90.2	97.7628632	--	0	--	--

Notes:

COPC - chemical of potential concern

Proposed RI CUL - Proposed Remdial Investigation Cleanup Level

Exceedanace Factor - Maximum detected concentration divided by the Proposed RI CUL

-- - not detected or no detections exceed Proposed RI CUL

mg/kg - milligrams per kilogram

ND = 0 - calculated using zero for non-detect values

ND = 1/2 RDL - calculated using one-half the reported detection limit (RDL) for non-detect values

TEQ - toxic equivalency

HPAHs = high molecular weight polycyclic aromatic hydrocarbons: fluoranthene, pyrene, benz(a)anthracene, chrysene, total benzofluoranthenes, benzo(a)pyrene, indeno(1,2,3,-c,d)pyrene, dibenzo(a,h)anthracene, and benzo(g,h,i)perylene.

cPAHs = carcinogenic polycyclic aromatic hydrocarbons: benzo(a)pyrene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene.

Table I.5.C. Summary Statistics for COPCs by Media - Saturated Soil

South Park Marina Site, Seattle, Washington

Analyte	Number of Samples	Number of Samples with Detected Conc.	Frequency of Detection	Units	Minimum Detected Conc.	Median Detected Conc.	Maximum Detected Conc.	Proposed RI CUL	Number of Detected Exceedances	Frequency of Exceedance	Max. Exceedance Factor
Metals, Total											
Arsenic	72	70	97%	mg/kg	0.59	1.78	29.3	7.3	4	6%	4.0
Barium	2	2	100%	mg/kg	31	33	35	250	0	--	0.1
Cadmium	72	39	54%	mg/kg	0.021	0.12	4.6	5.1	0	--	0.9
Chromium	72	72	100%	mg/kg	4.4	9.89	77.3	67	2	3%	1.1
Copper	70	70	100%	mg/kg	5.43	10.8	209	36	6	9%	5.8
Lead	72	72	100%	mg/kg	1.06	2.24	586	120	4	6%	4.9
Mercury	65	46	71%	mg/kg	0.0040	0.0335	3.5	0.41	2	3%	8.5
Nickel	57	57	100%	mg/kg	4.16	7.86	58.4	48	1	2%	1.2
Selenium	2	0	0%	mg/kg	--	--	--	0.78	0	--	--
Zinc	70	70	100%	mg/kg	14.1	23.9	418	85	7	10%	4.9
Butyl Tins											
Tributyltin Ion	52	12	23%	mg/kg	0.000562	0.00366	0.126	0.0039	5	10%	32
Polychlorinated Biphenyl Aroclors											
Total PCB Aroclors (ND = 0)	102	50	49%	mg/kg	0.00080	0.0754	131	0.036	31	30%	3,639
Polychlorinated Biphenyl Congeners											
Total PCB Congeners (ND = 0)	11	11	100%	mg/kg	0.0000057	6.84	110	0.00018	7	64%	611,111
Total PCB TEQ (ND = 0)	11	7	64%	mg/kg	0.0000247	0.000471	0.00251	0.00000070	7	64%	3586
Dioxins/Furans											
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	2	2	100%	mg/kg	0.0010	0.0025	0.00401	0.0000057	2	100%	704
2,3,7,8-TCDD	2	2	100%	mg/kg	0.0000445	0.0000972	0.00015	0.0000052	2	100%	29
Polycyclic Aromatic Hydrocarbons											
1-Methylnaphthalene	78	25	32%	mg/kg	0.00058	0.00551	1.05	20	0	--	--
2-Methylnaphthalene	91	25	27%	mg/kg	0.00052	0.00608	4.5	0.67	2	2%	6.7
Benzo(g,h,i)perylene	91	33	36%	mg/kg	0.00052	0.0056	0.0811	0.67	0	--	0.1
Fluoranthene	91	44	48%	mg/kg	0.00056	0.00525	0.88	1.7	0	--	0.5
Pyrene	91	49	54%	mg/kg	0.00057	0.00606	0.99	2.6	0	--	0.4
Benz(a)anthracene	91	29	32%	mg/kg	0.00064	0.0063	0.184	0.73	0	--	0.2
Benzo(a)pyrene	91	34	37%	mg/kg	0.00052	0.0069	0.17	0.00050	34	37%	340
Benzo(b)fluoranthene	91	33	36%	mg/kg	0.00073	0.0084	0.118	44	0	--	--
Chrysene	91	40	44%	mg/kg	0.00053	0.00675	0.53	1.4	0	--	0.4
Dibenzo(a,h)anthracene	91	10	11%	mg/kg	0.00119	0.00278	0.0226	0.23	0	--	0.1
Indeno(1,2,3-cd)pyrene	91	27	30%	mg/kg	0.00053	0.00606	0.0918	0.6	0	--	0.1
Total Benzofluoranthenes	91	32	35%	mg/kg	0.00098	0.0118	0.257	1.1	0	--	0.2
Total HPAHs (ND = 1/2 RDL)	91	52	57%	mg/kg	0.00325	0.0452	5.9	1.1	4	4%	5.4
Total cPAHs TEQ (ND = 1/2 RDL)	91	43	47%	mg/kg	0.00038	0.00877	0.755	0.00076	38	42%	993
Other Semivolatile Organic Compounds											
2-Methylphenol	67	0	0%	mg/kg	--	--	--	0.063	0	--	--
2,4-Dimethylphenol	54	1	2%	mg/kg	0.0376	0.0376	0.0376	0.029	1	2%	1.3
2,4-Dinitrophenol	54	1	2%	mg/kg	2.3	2.3	2.3	0.075	1	2%	31
Benzyl alcohol	67	2	3%	mg/kg	0.0041	0.0059	0.0077	0.057	0	--	0.1
Benzyl butyl phthalate	67	3	4%	mg/kg	0.0052	0.052	0.093	0.063	1	1%	1.5
Bis(2-ethylhexyl) phthalate	67	12	18%	mg/kg	0.03	0.388	2	0.04	10	15%	50
Di-n-butyl phthalate	67	2	3%	mg/kg	0.006	0.0076	0.0092	0.025	0	--	0.4
Diethyl phthalate	67	3	4%	mg/kg	0.0496	0.0667	0.124	0.2	0	--	0.6
Dimethyl phthalate	67	2	3%	mg/kg	0.0067	0.0164	0.026	0.071	0	--	0.4
Hexachlorobenzene	67	1	1%	mg/kg	0.0469	0.0469	0.0469	0.022	1	1%	2.1
N-Nitrosodiphenylamine	67	1	1%	mg/kg	0.0995	0.0995	0.0995	0.028	1	1%	3.5
Pentachlorophenol	67	4	6%	mg/kg	0.014	0.0345	0.079	0.36	0	--	0.2
Pesticides and Herbicides											
4,4'-DDE	67	16	24%	mg/kg	0.00045	0.00412	0.39	0.001	14	21%	390
4,4'-DDT	67	7	10%	mg/kg	0.0018	0.0036	1.6	0.001	7	10%	1,600
Aldrin	67	19	28%	mg/kg	0.002	0.525	20.3	0.0017	19	28%	11,941
Alpha-BHC	54	2	4%	mg/kg	0.00073	0.00736	0.014	0.0005	2	4%	28
cis-Chlordane	54	1	2%	mg/kg	0.047	0.047	0.047	0.0005	1	2%	94
Delta-BHC	54	2	4%	mg/kg	0.017	0.0365	0.056	0.0048	2	4%	12
Dieldrin	67	15	22%	mg/kg	0.00058	0.027	3.1	0.001	14	21%	3,100
Endrin Aldehyde	54	2	4%	mg/kg	0.036	0.098	0.16	0.011	2	4%	15
Heptachlor	67	3	4%	mg/kg	0.00056	0.0076	0.017	0.0005	3	4%	34
trans-Chlordane	54	1	2%	mg/kg	0.18	0.18	0.18	0.0017	1	2%	106
Total Petroleum Hydrocarbons											
Gasoline Range Organics	73	20	27%	mg/kg	2	9.02	5440	30	8	11%	181
Diesel Range Organics	84	21	25%	mg/kg	3.7	660	9550	2000	5	6%	4.8
Motor Oil Range Organics	84	27	32%	mg/kg	21	1200	49000	2000	11	13%	24
Diesel and Oil Extended Range Organics	84	27	32%	mg/kg	24.7	1370	57700	2000	13	15%	29
Benzene, Toluene, Ethylbenzene, and Total Xylenes											
Benzene	83	15	18%	mg/kg	0.00048	0.00104	0.016	0.001	8	10%	16
Total Xylenes	83	10	12%	mg/kg	0.0014	0.0047	4.16	1.4	1	1%	3.0
Volatile Organic Compounds											
1,2-Dichlorobenzene	98	7	7%	mg/kg	0.0049	0.0359	0.11	0.05	3	3%	2.2
1,2,3-Trichloropropane	82	0	0%	mg/kg	--	--	--	0.05	0	--	--
Methylene Chloride	69	7	10%	mg/kg	0.00659	0.114	10.7	2.6	1	1%	4.1
Tetrachloroethene (PCE)	82	31	38%	mg/kg	0.0006	0.019	18.7	0.0016	29	35%	11,688
Trichloroethene (TCE)	82	18	22%	mg/kg	0.00063	0.0053	0.672	0.001	16	20%	672
Vinyl Chloride	82	5	6%	mg/kg	0.001	0.0014	0.0029	0.001	4	5%	2.9
Conventionals											
Total Organic Carbon	23	16	70%	%	0.07	0.205	2.28	--	0	--	--
Total Solids	43	43	100%	%	60.5	77.9	87.5	--	0	--	--

Notes:

COPC - chemical of potential concern

Proposed RI CUL - Proposed Remdial Investigation Cleanup Level

Exceedanace Factor - Maximum detected concentration divided by the Proposed RI CUL

-- - not detected or no detections exceed Proposed RI CUL

mg/kg - milligrams per kilogram

ND = 0 - calculated using zero for non-detect values

ND = 1/2 RDL - calculated using one-half the reported detection limit (RDL) for non-detect values

TEQ - toxic equivalency

HPAHs = high molecular weight polycyclic aromatic hydrocarbons: fluoranthene, pyrene, benz(a)anthracene, chrysene, total benzofluoranthenes, benzo(a)pyrene, indeno(1,2,3,-c,d)pyrene, dibenzo(a,h)anthracene, and benzo(g,h,i)perylene.

cPAHs = carcinogenic polycyclic aromatic hydrocarbons: benzo(a)pyrene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene.

Table I.5.D. Summary Statistics for COPCs by Media - Soil Gas

South Park Marina Site, Seattle, Washington

	Proposed RI SL for Unrestricted Use										
Analyte	**Number of Samples**	**Number of Samples with Detected Conc.**	**Frequency of Detection**	**Units**	**Min. Detected Conc.**	**Median Detected Conc.**	**Max. Detected Conc.**	**Proposed RI SL**	**Number of Detected Exceedances**	**Frequency of Exceedance**	**Max. Exceedance Factor**
Volatile Organic Compounds (VOCs)											
Tetrachloroethene (PCE)	6	6	100%	ug/m^3	140	5950	43000	320	5	83%	134
Trichloroethene (TCE)	6	5	83%	ug/m3	1.8	12	75	11	3	50%	6.8

	Proposed RI SL Adjusted for Commercial Worker Exposure										
Analyte	**Number of Samples**	**Number of Samples with Detected Conc.**	**Frequency of Detection**	**Units**	**Min. Detected Conc.**	**Median Detected Conc.**	**Max. Detected Conc.**	**Proposed RI SL**	**Number of Detected Exceedances**	**Frequency of Exceedance**	**Max. Exceedance Factor**
Volatile Organic Compounds (VOCs)											
Tetrachloroethene (PCE)	6	6	100%	ug/m^3	140	5950	43000	1,500	4	67%	29
Trichloroethene (TCE)	6	5	83%	ug/m3	1.8	12	75	95	0	--	0.8

Notes:

COPC - chemical of potential concern

Proposed RI SL - Proposed Remdial Investigation Screening Level

Exceedanace Factor - Maximum detected concentration divided by the Proposed RI CUL

-- - not detected or no detections exceed Proposed RI CUL

ug/m^3 - micrograms per cubic meter

Table I.5.E. Summary Statistics for COPCs by Media - Indoor Air

South Park Marina Site, Seattle, Washington

	Proposed RI CUL for Unrestricted Use										
Analyte	**Number of Samples**	**Number of Samples with Detected Conc.**	**Frequency of Detection**	**Units**	**Min. Detected Conc.**	**Median Detected Conc.**	**Max. Detected Conc.**	**Proposed RI CUL**	**Number of Detected Exceedances**	**Frequency of Exceedance**	**Max. Exceedance Factor**
Volatile Organic Compounds (VOCs)											
Tetrachloroethene (PCE)	4	4	100%	ug/m^3	36	365	4700	9.6	4	100%	490
Trichloroethene (TCE)	4	1	25%	ug/m^3	0.16	0.16	0.16	0.33	0	--	0.5

	Proposed RI SL Adjusted for Commercial Worker Exposure										
Analyte	**Number of Samples**	**Number of Samples with Detected Conc.**	**Frequency of Detection**	**Units**	**Min. Detected Conc.**	**Median Detected Conc.**	**Max. Detected Conc.**	**Proposed RI SL**	**Number of Detected Exceedances**	**Frequency of Exceedance**	**Max. Exceedance Factor**
Volatile Organic Compounds (VOCs)											
Tetrachloroethene (PCE)	4	4	100%	ug/m^3	36	365	4700	45	3	75%	104
Trichloroethene (TCE)	4	1	25%	ug/m^3	0.16	0.16	0.16	2.8	0	--	0.1

Notes:

COPC - chemical of potential concern

Proposed RI SL - Proposed Remdial Investigation Screening Level

Proposed RI CUL - Proposed Remdial Investigation Cleanup Level

Exceedanace Factor - Maximum detected concentration divided by the Proposed RI CUL

-- - not detected or no detections exceed Proposed RI CUL

ug/m^3 - micrograms per cubic meter

APPENDIX I.6

Individual/Total PCB Aroclors and Congeners by Media - Tables I.6.A through I.6.E - Groundwater, Vadose Soil, Saturated Soil, Catch Basin Solids, and Stormwater

Table I.6.A.1. Individual PCB Aroclors in Groundwater

South Park Marina Site, Seattle, Washington

Location				MW-01	MW-02	MW-03	MW-04		MW-04D	MW-05			MW-05D	MW-06		
Sample Date				10/09/07	10/09/07	10/08/07	03/31/21	10/27/22	10/26/22	03/23/23	03/31/21	10/26/22	10/26/22	03/23/23	03/29/21	10/26/22
Sample				MW-1-100907	MW-2-100907	MW-3-100807	MW-04-210331	MW-04-221027	MW-04D-221026	MW-05-230323	MW-05-210331	MW-05-221026	MW-05D-221026	MW-06-230323	MW-06-210329	MW-06-221026
Hydrostatigraphic Unit				Alluvial	Alluvial	Alluvial	Fill	Fill	Alluvial	Fill	Fill	Fill	Alluvial	Fill	Fill	Fill
Tidal Stage				--	--	--	Lower-Low	Higher-Low	Higher-Low	Lower-Low	Lower-Low	Higher-Low	Higher-Low	HigherHigh	Lower-High	Higher-Low
Tidal Trend				--	--	--	Incoming	Outgoing	Outgoing	Incoming	Incoming	Outgoing	Outgoing	Outgoing	Incoming	Outgoing
Analyte	Unit	Proposed RI CUL	Basis of CUL													
Polychlorinated Biphenyl (PCB) Aroclors																
Aroclor 1016	ug/L			< 0.21 U	< 0.21 U	< 0.2 U	< 0.01 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.01 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.01 U	< 0.0035 U
Aroclor 1221	ug/L						< 0.01 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.01 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.01 U	< 0.0035 U
Aroclor 1232	ug/L						< 0.01 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	**0.386 J**	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.01 U	< 0.0035 U
Aroclor 1242	ug/L						**0.063**	**0.063**	< 0.0035 U	**0.11**	< 0.01 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.01 U	< 0.0035 U
Aroclor 1248	ug/L			< 0.21 U	< 0.21 U	< 0.2 U	< 0.01 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.01 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.01 U	< 0.0035 U
Aroclor 1254	ug/L			< 0.21 U	< 0.21 U	< 0.2 U	**0.035**	**0.15**	< 0.0035 U	**0.24**	**0.252 J**	**17**	< 0.0035 U	< 0.0035 U	**0.014**	< 0.0035 U
Aroclor 1260	ug/L			< 0.21 U	< 0.21 U	< 0.2 U	**0.005 J**	< 0.0035 U	< 0.0035 U	< 0.0035 U	**0.041 J**	< 0.0035 U	< 0.0035 U	< 0.0035 U	**0.006 J**	< 0.0035 U
Aroclor 1262	ug/L						< 0.01 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.01 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.01 U	< 0.0035 U
Aroclor 1268	ug/L						< 0.01 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.01 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.01 U	< 0.0035 U
Total PCB Aroclors (ND = 0)	ug/L	0.0035	GW-2, PQL Adj.	< 0.21 UA	< 0.21 UA	< 0.2 UA	**0.103 J**	**0.213**	< 0.0035 U	**0.35**	**0.679 J**	**17**	< 0.0035 U	< 0.0035 U	**0.02 J**	< 0.0035 U

Notes:

Proposed RI CUL = Proposed Remedial Investigation Cleanup Level

Bold = detected

Gray Shaded = Nondetect result has an RDL that exceeds the Proposed RI CUL

Blue Shaded = Detected result exceeded the Proposed RI CUL

ug/L = micrograms per liter

U = Analyte not detected at or above the RDL shown

J = Result value estimated

UJ = Analyte not detected, and the RDL shown is an estimate

A = One or more of the nine common Aroclor groups (1016, 1221, 1232, 1242, 1248, 1254, 1260, 1262, and 1268) were not reported, and the Total PCB Aroclors (ND = 0) sum assumes the missing components were nondetect.

Total PCB Aroclors (ND = 0) are the sum of Aroclors available, with nondetects = 0, unless all Aroclors were not detected, in which case the Total PCB Aroclors concentration is shown as nondetect at the maximum RDL for any individual Aroclor.

RDL = Reported Detection Limit

Table I.6.A.1. Individual PCB Aroclors in Groundwater

South Park Marina Site, Seattle, Washington

Location				MW-07			MW-08			MW-08D	MW-09	MW-09D	MW-10	MW-11		
Sample Date				03/23/23	03/29/21	10/27/22	03/22/23	03/29/21	10/31/22	10/25/22	10/31/22	10/24/22	10/31/22	03/23/23	03/30/21	10/27/22
Sample				MW-07-230323	MW-07-210329	MW-07-221027	MW-08-230322	MW-08-210329	MW-08-221031	MW-08D-221025	MW-09-221031	MW-09D-221024	MW-10-221031	MW-11-230323	MW-11-210330	MW-11-221027
Hydrostatigraphic Unit				Fill	Fill	Fill	Fill	Fill	Fill	Alluvial	Fill	Alluvial	Fill	Fill	Fill	Fill
Tidal Stage				HigherHigh	Lower-Low	HigherHigh	Lower-Low	Lower-Low	HigherHigh	HigherHigh	HigherHigh	HigherHigh	HigherHigh	HigherHigh	HigherHigh	HigherHigh
Tidal Trend				Outgoing	Incoming	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing
Analyte	Unit	Proposed RI CUL	Basis of CUL													
Polychlorinated Biphenyl (PCB) Aroclors																
Aroclor 1016	ug/L			< 0.0035 U	< 0.011 U	< 0.0035 U	< 0.0035 U	< 0.01 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.01 U	< 0.0035 U
Aroclor 1221	ug/L			< 0.0035 U	< 0.011 U	< 0.0035 U	< 0.0035 U	< 0.01 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.01 U	< 0.0035 U
Aroclor 1232	ug/L			< 0.0035 U	< 0.011 U	< 0.0035 U	< 0.0035 U	< 0.01 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.01 U	< 0.0035 U
Aroclor 1242	ug/L			< 0.0035 U	< 0.011 U	< 0.0035 U	< 0.0035 U	< 0.01 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.01 U	< 0.0035 U
Aroclor 1248	ug/L			< 0.0035 U	< 0.011 U	< 0.0035 U	< 0.0035 U	< 0.01 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.01 U	< 0.0035 U
Aroclor 1254	ug/L			< 0.0035 U	**0.004 J**	< 0.0035 U	< 0.0035 U	**0.003 J**	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	**0.006 J**	< 0.0035 U
Aroclor 1260	ug/L			< 0.0035 U	**0.006 J**	< 0.0035 U	< 0.0035 U	< 0.01 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.01 U	< 0.0035 U
Aroclor 1262	ug/L			< 0.0035 U	< 0.011 U	< 0.0035 U	< 0.0035 U	< 0.01 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.01 U	< 0.0035 U
Aroclor 1268	ug/L			< 0.0035 U	< 0.011 U	< 0.0035 U	< 0.0035 U	< 0.01 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.01 U	< 0.0035 U
Total PCB Aroclors (ND = 0)	ug/L	0.0035	GW-2, PQL Adj.	< 0.0035 U	**0.01 J**	< 0.0035 U	< 0.0035 U	**0.003 J**	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	**0.006 J**	< 0.0035 U

Notes:

Proposed RI CUL = Proposed Remedial Investigation Cleanup Level

Bold = detected

Gray Shaded = Nondetect result has an RDL that exceeds the Proposed RI CUL

Blue Shaded = Detected result exceeded the Proposed RI CUL

ug/L = micrograms per liter

U = Analyte not detected at or above the RDL shown

J = Result value estimated

UJ = Analyte not detected, and the RDL shown is an estimate

A = One or more of the nine common Aroclor groups (1016, 1221, 1232, 1242, 1248, 1254, 1260, 1262, and 1268) were not reported, and the Total PCB Aroclors (ND = 0) sum assumes the missing components were nondetect.

Total PCB Aroclors (ND = 0) are the sum of Aroclors available, with nondetects = 0, unless all Aroclors were not detected, in which case the Total PCB Aroclors concentration is shown as nondetect at the maximum RDL for any individual Aroclor.

RDL = Reported Detection Limit

Table I.6.A.1. Individual PCB Aroclors in Groundwater

South Park Marina Site, Seattle, Washington

Location				MW-11D	MW-12		MW-13		MW-13D	MW-14		MW-15			MW-16
Sample Date				10/25/22	03/30/21	10/27/22	03/31/21	10/26/22	10/26/22	03/31/21	10/24/22	03/22/23	03/30/21	10/24/22	03/24/23
Sample				MW-11D-221024	MW-12-210330	MW-12-221027	MW-13-210331	MW-13-221026	MW-13D-221026	MW-14-210331	MW-14-221024	MW-15-230322	MW-15-210330	MW-15-221024	MW-16-230324
Hydrostatigraphic Unit				Alluvial	Fill	Fill	Fill	Fill	Alluvial	Fill	Fill	Fill	Fill	Fill	Fill
Tidal Stage				HigherHigh	Lower-Low	HigherHigh	Lower-Low	HigherHigh	HigherHigh	Lower-Low	HigherHigh	Lower-Low	Lower-Low	HigherHigh	HigherHigh
Tidal Trend				Outgoing	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing
Analyte	Unit	Proposed RI CUL	Basis of CUL												
Polychlorinated Biphenyl (PCB) Aroclors															
Aroclor 1016	ug/L			< 0.0035 U	< 0.01 U	< 0.0035 U	< 0.01 U	< 0.0035 U	< 0.0035 U	< 0.012 U	< 0.0035 U	< 0.0035 U	< 0.01 U	< 0.0035 U	< 0.0035 U
Aroclor 1221	ug/L			< 0.0035 U	< 0.01 U	< 0.0035 U	< 0.01 U	< 0.0035 U	< 0.0035 U	< 0.012 U	< 0.0035 U	< 0.0035 U	< 0.01 U	< 0.0035 U	< 0.0035 U
Aroclor 1232	ug/L			< 0.0035 U	< 0.01 U	< 0.0035 U	< 0.01 U	< 0.0035 U	< 0.0035 U	< 0.012 U	< 0.0035 U	< 0.0035 U	< 0.01 U	< 0.0035 U	< 0.0035 U
Aroclor 1242	ug/L			< 0.0035 U	< 0.01 U	< 0.0035 U	< 0.01 U	< 0.0035 U	< 0.0035 U	< 0.012 U	< 0.0035 U	< 0.0035 U	< 0.01 U	< 0.0035 U	< 0.0035 U
Aroclor 1248	ug/L			< 0.0035 U	< 0.01 U	< 0.0035 U	< 0.01 U	< 0.0035 U	< 0.0035 U	< 0.012 U	< 0.0035 U	< 0.0035 U	< 0.01 U	< 0.0035 U	< 0.0035 U
Aroclor 1254	ug/L			< 0.0035 U	< 0.01 U	< 0.0035 U	< 0.01 U	< 0.0035 U	< 0.0035 U	< 0.012 U	< 0.0035 U	< 0.0035 U	**0.003 J**	< 0.0035 U	**0.044**
Aroclor 1260	ug/L			< 0.0035 U	< 0.01 U	< 0.0035 U	< 0.01 U	< 0.0035 U	< 0.0035 U	< 0.012 U	< 0.0035 U	< 0.0035 U	**0.004 J**	< 0.0035 U	< 0.0035 U
Aroclor 1262	ug/L			< 0.0035 U	< 0.01 U	< 0.0035 U	< 0.01 U	< 0.0035 U	< 0.0035 U	< 0.012 U	< 0.0035 U	< 0.0035 U	< 0.01 U	< 0.0035 U	< 0.0035 U
Aroclor 1268	ug/L			< 0.0035 U	< 0.01 U	< 0.0035 U	< 0.01 U	< 0.0035 U	< 0.0035 U	< 0.012 U	< 0.0035 U	< 0.0035 U	< 0.01 U	< 0.0035 U	< 0.0035 U
Total PCB Aroclors (ND = 0)	ug/L	0.0035	GW-2, PQL Adj.	< 0.0035 U	< 0.01 U	< 0.0035 U	< 0.01 U	< 0.0035 U	< 0.0035 U	< 0.012 U	< 0.0035 U	< 0.0035 U	**0.007 J**	< 0.0035 U	**0.044**

Notes:

Proposed RI CUL = Proposed Remedial Investigation Cleanup Level

Bold = detected

Gray Shaded = Nondetect result has an RDL that exceeds the Proposed RI CUL

Blue Shaded = Detected result exceeded the Proposed RI CUL

ug/L = micrograms per liter

U = Analyte not detected at or above the RDL shown

J = Result value estimated

UJ = Analyte not detected, and the RDL shown is an estimate

A = One or more of the nine common Aroclor groups (1016, 1221, 1232, 1242, 1248, 1254, 1260, 1262, and 1268) were not reported, and the Total PCB Aroclors (ND = 0) sum assumes the missing components were nondetect.

Total PCB Aroclors (ND = 0) are the sum of Aroclors available, with nondetects = 0, unless all Aroclors were not detected, in which case the Total PCB Aroclors concentration is shown as nondetect at the maximum RDL for any individual Aroclor.

RDL = Reported Detection Limit

Table I.6.A.1. Individual PCB Aroclors in Groundwater

South Park Marina Site, Seattle, Washington

Location				MW-16D		MW-17	MW-18D	MW-19	MW-19D	MW-20	MW-22	MW-06D
Sample Date				03/23/23	10/26/22	10/27/22	10/31/22	10/27/22	10/27/22	10/31/22	10/24/22	10/31/22
Sample				MW-16D-230323	MW-16D-221026	MW-17-221027	MW-18D-221031	MW-19-221027	MW-19D-221027	MW-20-221031	MW-22-221024	MW-06D-221031
Hydrostatigraphic Unit				Alluvial	Alluvial	Alluvial	Alluvial	Fill	Alluvial	Alluvial	Fill	Alluvial
Tidal Stage				Lower-Low	HigherHigh	HigherHigh	HigherHigh	HigherHigh	HigherHigh	Higher-Low	Higher-Low	Higher-Low
Tidal Trend				Outgoing	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing
Analyte	Unit	Proposed RI CUL	Basis of CUL									
Polychlorinated Biphenyl (PCB) Aroclors												
Aroclor 1016	ug/L			< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U
Aroclor 1221	ug/L			< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U
Aroclor 1232	ug/L			< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U
Aroclor 1242	ug/L			< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U
Aroclor 1248	ug/L			< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U
Aroclor 1254	ug/L			**0.16**	**0.17**	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U
Aroclor 1260	ug/L			< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U
Aroclor 1262	ug/L			< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U
Aroclor 1268	ug/L			< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U
Total PCB Aroclors (ND = 0)	ug/L	0.0035	GW-2, PQL Adj.	**0.16**	**0.17**	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U

Notes:

Proposed RI CUL = Proposed Remedial Investigation Cleanup Level

Bold = detected

Gray Shaded = Nondetect result has an RDL that exceeds the Proposed RI CUL

Blue Shaded = Detected result exceeded the Proposed RI CUL

ug/L = micrograms per liter

U = Analyte not detected at or above the RDL shown

J = Result value estimated

UJ = Analyte not detected, and the RDL shown is an estimate

A = One or more of the nine common Aroclor groups (1016, 1221, 1232, 1242, 1248, 1254, 1260, 1262, and 1268) were not reported, and the Total PCB Aroclors (ND = 0) sum assumes the missing components were nondetect.

Total PCB Aroclors (ND = 0) are the sum of Aroclors available, with nondetects = 0, unless all Aroclors were not detected, in which case the Total PCB Aroclors concentration is shown as nondetect at the maximum RDL for any individual Aroclor.

RDL = Reported Detection Limit

Table I.6.A.2. Individual PCB Congeners in Groundwater

South Park Marina Site, Seattle, Washington

			Location	**MW-04**	**MW-05**	**MW-08**	**MW-15**	**MW-13**
			Sample Date	05/27/21	05/27/21	05/27/21	05/27/21	05/27/21
			Sample	MW-04-210527	MW-05-210527	MW-08-210527	MW-15-210527	MW-13-210527
			Hydrostatigraphic Unit	Fill	Fill	Fill	Fill	Fill
			Tidal Stage	Lower-Low	Lower-Low	HigherHigh	Lower-Low	Lower-Low
			Tidal Trend	Incoming	Incoming	Outgoing	Outgoing	Outgoing
Analyte	Unit	Proposed RI CUL	Basis of CUL					
Polychlorinated Biphenyl (PCB) Congeners								
PCB-001	ug/L			**3.94E-5 J**	**1.13E-4**	< 4.9E-6 U	< 4.94E-6 U	< 4.92E-6 U
PCB-002	ug/L			< 5.03E-6 U	< 4.81E-6 U	< 4.9E-6 U	< 4.94E-6 U	< 4.92E-6 U
PCB-003	ug/L			< 5.03E-6 UJ	**9.12E-6**	< 4.9E-6 U	< 4.94E-6 U	< 4.92E-6 U
PCB-004/010	ug/L			**1.1E-2**	**2.83E-2**	< 1.01E-5 U	< 1.03E-5 U	< 9.93E-6 U
PCB-005/008	ug/L			**3.01E-3**	**8.06E-3**	< 1.01E-5 U	< 1.03E-5 U	< 9.93E-6 U
PCB-006	ug/L			**2.63E-4 J**	**7.17E-4**	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-007/009	ug/L			**5.69E-4**	< 9.79E-6 U	< 1.01E-5 U	< 1.03E-5 U	< 9.93E-6 U
PCB-011	ug/L			< 5.11E-6 U	< 4.9E-6 U	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-012/013	ug/L			**2.03E-4 J**	**4.29E-5**	< 1.01E-5 U	< 1.03E-5 U	< 9.93E-6 U
PCB-014	ug/L			< 5.11E-6 U	< 4.9E-6 U	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-015	ug/L			**3.29E-3**	**6.15E-3**	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-016/032	ug/L			**5.21E-3**	**8.1E-3**	< 1.01E-5 U	< 1.03E-5 U	< 9.93E-6 U
PCB-017	ug/L			**3.04E-3**	**4.38E-3**	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-018	ug/L			**9.47E-3**	**1.4E-2**	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-019	ug/L			**1.46E-3**	**2.43E-3**	**1.74E-5**	< 5.15E-6 U	< 4.97E-6 U
PCB-020/021/033	ug/L			**2.4E-3**	**2.99E-3**	< 1.51E-5 U	< 1.55E-5 U	< 1.49E-5 U
PCB-022	ug/L			**1.79E-3**	**1.63E-3**	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-023	ug/L			**6.74E-6 J**	**5.21E-6**	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-024/027	ug/L			**5.63E-4**	**8.49E-4**	< 1.01E-5 U	< 1.03E-5 U	< 9.93E-6 U
PCB-025	ug/L			**2.58E-4**	**3.09E-4**	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-026	ug/L			**7.9E-4**	**1.04E-3**	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-028	ug/L			**4.07E-3**	**5.02E-3**	< 5.04E-6 U	< 5.15E-6 U	**4.24E-6 J**
PCB-029	ug/L			**3.37E-5**	< 4.9E-6 U	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-030	ug/L			< 5.11E-6 U	**6.36E-6**	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-031	ug/L			**4.14E-3**	**6.43E-3**	< 5.04E-6 U	< 5.15E-6 U	**5.02E-6**
PCB-034	ug/L			< 5.11E-6 UJ	**3.86E-5**	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-035	ug/L			**2.82E-5**	**4.09E-5**	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-036	ug/L			< 5.11E-6 U	< 4.9E-6 U	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-037	ug/L			**1.0E-3**	**1.38E-3**	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-038	ug/L			**2.14E-5**	**3.1E-5**	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-039	ug/L			< 5.11E-6 U	**5.52E-6**	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-040	ug/L			**7.59E-4**	**1.33E-3**	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-041/064/071/072	ug/L			**2.49E-3 J**	**4.71E-3 J**	< 2.02E-5 U	< 2.06E-5 U	< 1.99E-5 U
PCB-042/059	ug/L			**9.52E-4**	**1.48E-3**	**1.33E-5**	< 1.03E-5 U	< 9.93E-6 U
PCB-043/049	ug/L			**2.62E-3**	**5.37E-3**	< 1.01E-5 U	< 1.03E-5 U	< 9.93E-6 U
PCB-044	ug/L			**4.41E-3**	**1.02E-2**	**7.91E-5**	< 5.15E-6 U	< 4.97E-6 U
PCB-045	ug/L			**9.44E-4**	**1.16E-3**	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-046	ug/L			**4.06E-4**	**5.22E-4**	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-047	ug/L			**6.23E-4**	**1.09E-3**	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-048/075	ug/L			**5.9E-4**	**9.1E-4**	**6.46E-6 J**	< 1.03E-5 U	< 9.93E-6 U
PCB-050	ug/L			< 5.11E-6 U	**1.31E-5**	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-051	ug/L			**1.79E-4**	**2.1E-4**	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-052/069	ug/L			**6.77E-3 J**	**1.5E-2 J**	**1.29E-4 J**	< 1.03E-5 U	< 9.93E-6 U
PCB-053	ug/L			**8.93E-4**	**1.22E-3**	**1.99E-5**	< 5.15E-6 U	< 4.97E-6 U
PCB-054	ug/L			< 5.11E-6 UJ	**2.05E-5**	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-055	ug/L			**1.94E-5 J**	**2.03E-5**	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-056/060	ug/L			**1.45E-3**	**2.4E-3**	**1.67E-5**	< 1.03E-5 U	< 9.93E-6 U
PCB-057	ug/L			< 5.11E-6 U	**1.24E-5**	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-058	ug/L			< 5.11E-6 U	**1.65E-5**	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-061/070	ug/L			**3.92E-3**	**9.66E-3**	**2.07E-5**	**2.24E-5**	< 9.93E-6 U
PCB-062	ug/L			< 5.11E-6 U	< 4.9E-6 U	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-063	ug/L			**8.28E-5**	< 4.9E-6 U	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-065	ug/L			< 5.11E-6 U	< 4.9E-6 U	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-066/076	ug/L			**1.88E-3**	**4.08E-3**	**1.63E-5**	< 1.03E-5 U	< 9.93E-6 U
PCB-067	ug/L			**5.29E-5**	**6.87E-5**	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-068	ug/L			< 5.11E-6 U	**3.23E-5**	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-073	ug/L			< 5.11E-6 U	< 4.9E-6 U	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-074	ug/L			**1.05E-3**	**2.14E-3**	**1.07E-5**	< 5.15E-6 U	< 4.97E-6 U
PCB-077	ug/L			**1.58E-4**	**2.09E-4**	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-078	ug/L			< 5.11E-6 U	< 4.9E-6 U	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-079	ug/L			**6.52E-5 J**	**9.18E-5**	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-080	ug/L			< 5.11E-6 U	< 4.9E-6 U	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-081	ug/L			**4.01E-5 J**	**7.55E-5**	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-082	ug/L			**7.41E-4**	**1.71E-3**	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-083	ug/L			< 5.11E-6 U	< 4.9E-6 U	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-084/092	ug/L			**3.5E-3**	**7.14E-3**	**1.03E-4**	< 1.03E-5 U	< 9.93E-6 U
PCB-085/116	ug/L			**9.26E-4**	**2.05E-3**	**2.72E-5**	< 1.03E-5 U	< 9.93E-6 U
PCB-086	ug/L			< 5.11E-6 U	**2.91E-5**	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-087/117/125	ug/L			**2.45E-3**	**5.52E-3**	**5.68E-5**	< 1.55E-5 U	< 1.49E-5 U
PCB-088/091	ug/L			**8.84E-4**	**1.81E-3**	< 5.04E-6 U	**1.93E-5**	< 4.97E-6 U
PCB-089	ug/L			< 5.11E-6 UJ	**1.08E-4**	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-090/101	ug/L			**7.37E-3**	**1.59E-2**	**1.91E-4**	**1.0E-4**	< 9.93E-6 U

Table I.6.A.2. Individual PCB Congeners in Groundwater

South Park Marina Site, Seattle, Washington

			Location	MW-04	MW-05	MW-08	MW-15	MW-13
			Sample Date	05/27/21	05/27/21	05/27/21	05/27/21	05/27/21
			Sample	MW-04-210527	MW-05-210527	MW-08-210527	MW-15-210527	MW-13-210527
			Hydrostatigraphic Unit	Fill	Fill	Fill	Fill	Fill
			Tidal Stage	Lower-Low	Lower-Low	HigherHigh	Lower-Low	Lower-Low
			Tidal Trend	Incoming	Incoming	Outgoing	Outgoing	Outgoing
Analyte	Unit	Proposed RI CUL	Basis of CUL					
PCB-093	ug/L			< 5.11E-6 U	**3.54E-4**	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-094	ug/L			< 5.11E-6 UJ	**5.3E-5**	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-095/098/102	ug/L			**6.36E-3**	**1.21E-2**	**1.88E-4**	< 1.55E-5 U	**9.15E-6 J**
PCB-096	ug/L			**4.69E-5**	**8.59E-5**	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-097	ug/L			**1.79E-3**	**4.2E-3**	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-099	ug/L			**2.5E-3**	**5.66E-3**	**7.01E-5**	**3.53E-5**	< 4.97E-6 U
PCB-100	ug/L			**1.49E-5 J**	**2.56E-5**	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-103	ug/L			< 5.11E-6 UJ	< 4.9E-6 U	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-104	ug/L			< 5.11E-6 U	< 4.9E-6 U	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-105	ug/L			**1.61E-3**	**4.76E-3**	< 5.04E-6 U	**2.99E-5**	< 4.97E-6 U
PCB-106/118	ug/L			**4.26E-3**	**1.21E-2**	**1.13E-4**	**6.04E-5**	< 9.93E-6 U
PCB-107/109	ug/L			**2.44E-4**	**6.4E-4**	< 1.01E-5 U	< 1.03E-5 U	< 9.93E-6 U
PCB-108/112	ug/L			**2.3E-4**	**5.88E-4**	**7.33E-6 J**	< 1.03E-5 U	< 9.93E-6 U
PCB-110	ug/L			**7.36E-3**	**1.64E-2**	**2.53E-4**	**1.63E-4**	< 4.97E-6 U
PCB-111/115	ug/L			< 1.02E-5 UJ	**2.08E-4**	< 1.01E-5 U	< 1.03E-5 U	< 9.93E-6 U
PCB-113	ug/L			< 5.11E-6 U	< 4.9E-6 U	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-114	ug/L			**9.4E-5**	**2.71E-4**	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-119	ug/L			**8.71E-5 J**	**2.18E-4**	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-120	ug/L			< 5.11E-6 U	**2.42E-5**	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-121	ug/L			< 5.11E-6 U	**3.21E-5**	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-122	ug/L			**6.42E-5**	**1.32E-4**	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-123	ug/L			**7.62E-5**	**1.54E-4**	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-124	ug/L			**2.21E-4**	**4.7E-4**	< 5.04E-6 U	**4.15E-6 J**	< 4.97E-6 U
PCB-126	ug/L			**2.55E-5 J**	**4.47E-5**	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-127	ug/L			< 5.11E-6 U	< 4.9E-6 U	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-128/162	ug/L			**7.98E-4 J**	**1.95E-3**	**3.87E-5**	< 1.03E-5 U	< 9.93E-6 U
PCB-129	ug/L			**2.54E-4**	**5.95E-4**	**1.34E-5**	**8.06E-6**	< 4.97E-6 U
PCB-130	ug/L			< 5.11E-6 UJ	**7.28E-4**	**1.45E-5**	< 5.15E-6 U	< 4.97E-6 U
PCB-131/133	ug/L			**1.35E-4 J**	**2.86E-4**	**8.52E-6 J**	< 1.03E-5 U	< 9.93E-6 U
PCB-132/161	ug/L			**1.5E-3**	**3.29E-3**	**6.95E-5**	**4.37E-5**	< 9.93E-6 U
PCB-134/143	ug/L			**3.27E-4**	**6.35E-4**	**1.54E-5**	< 1.03E-5 U	< 9.93E-6 U
PCB-135	ug/L			**4.78E-4 J**	**9.67E-4**	< 5.04E-6 U	**2.43E-5**	< 4.97E-6 U
PCB-136	ug/L			**6.71E-4**	**1.36E-3**	**3.85E-5**	< 5.15E-6 U	< 4.97E-6 U
PCB-137	ug/L			**2.7E-4 J**	**6.74E-4**	**1.74E-5**	< 5.15E-6 U	< 4.97E-6 U
PCB-138/163/164	ug/L			**4.82E-3 J**	**1.04E-2**	**2.38E-4**	**1.56E-4**	< 1.49E-5 U
PCB-139/149	ug/L			**3.1E-3 J**	**6.61E-3**	**1.9E-4**	**1.2E-4**	**9.65E-6 J**
PCB-140	ug/L			**1.78E-5 J**	**4.39E-5**	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-141	ug/L			**9.67E-4**	**1.78E-3**	**4.44E-5**	**3.92E-5**	< 4.97E-6 U
PCB-142	ug/L			< 5.11E-6 U	< 4.9E-6 U	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-144	ug/L			**2.29E-4**	**4.23E-4**	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-145	ug/L			< 5.11E-6 U	< 4.9E-6 U	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-146/165	ug/L			**5.19E-4 J**	**1.08E-3**	**3.19E-5**	< 1.03E-5 U	< 9.93E-6 U
PCB-147	ug/L			**7.4E-5**	**1.93E-4**	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-148	ug/L			< 5.11E-6 U	< 4.9E-6 U	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-150	ug/L			< 5.11E-6 U	< 4.9E-6 U	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-151	ug/L			**9.15E-4**	**1.53E-3**	**4.0E-5**	< 5.15E-6 U	< 4.97E-6 U
PCB-152	ug/L			< 5.11E-6 U	**1.07E-5**	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-153	ug/L			**4.11E-3 J**	**8.03E-3**	**1.95E-4**	**1.24E-4**	< 4.97E-6 U
PCB-154	ug/L			< 5.11E-6 UJ	**7.95E-5**	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-155	ug/L			< 5.11E-6 U	< 4.9E-6 U	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-156	ug/L			**4.62E-4**	**1.16E-3**	**1.59E-5**	**1.06E-5**	< 4.97E-6 U
PCB-157	ug/L			**1.14E-4**	**2.78E-4**	**8.13E-6**	< 5.15E-6 U	< 4.97E-6 U
PCB-158/160	ug/L			**6.13E-4**	**1.3E-3**	**2.92E-5**	**1.81E-5**	< 9.93E-6 U
PCB-159	ug/L			< 5.11E-6 U	< 4.9E-6 U	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-166	ug/L			< 5.11E-6 U	< 4.9E-6 U	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-167	ug/L			**1.89E-4 J**	**4.37E-4**	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-168	ug/L			< 5.11E-6 U	< 4.9E-6 U	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-169	ug/L			< 5.11E-6 U	< 4.9E-6 U	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-170	ug/L			**8.37E-4 J**	**1.39E-3**	**6.58E-5**	< 5.15E-6 U	< 4.97E-6 U
PCB-171	ug/L			**2.38E-4 J**	**3.75E-4**	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-172	ug/L			**1.36E-4**	**1.8E-4**	**9.89E-6**	< 5.15E-6 U	< 4.97E-6 U
PCB-173	ug/L			< 5.11E-6 UJ	**3.55E-5**	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-174	ug/L			**9.24E-4**	**1.29E-3**	**8.12E-5**	< 5.15E-6 U	< 4.97E-6 U
PCB-175	ug/L			**3.99E-5**	**5.07E-5**	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-176	ug/L			**1.22E-4**	**1.68E-4**	< 5.04E-6 U	**3.98E-6 J**	< 4.97E-6 U
PCB-177	ug/L			**5.12E-4**	**7.04E-4**	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-178	ug/L			**1.51E-4 J**	**2.01E-4**	**1.64E-5**	< 5.15E-6 U	< 4.97E-6 U
PCB-179	ug/L			**3.89E-4 J**	**5.14E-4**	**3.38E-5**	**1.67E-5**	< 4.97E-6 U
PCB-180	ug/L			**1.98E-3**	**2.83E-3**	**1.51E-4**	**9.17E-5**	< 4.97E-6 U
PCB-181	ug/L			< 5.11E-6 U	**1.16E-5**	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-182/187	ug/L			**9.07E-4 J**	**1.24E-3**	**8.7E-5**	**4.35E-5**	**5.3E-6 J**
PCB-183	ug/L			**4.69E-4 J**	**6.93E-4**	**4.16E-5**	**1.98E-5**	< 4.97E-6 U
PCB-184	ug/L			< 5.11E-6 U	< 4.9E-6 U	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U

Table I.6.A.2. Individual PCB Congeners in Groundwater

South Park Marina Site, Seattle, Washington

			Location	**MW-04**	**MW-05**	**MW-08**	**MW-15**	**MW-13**
			Sample Date	05/27/21	05/27/21	05/27/21	05/27/21	05/27/21
			Sample	MW-04-210527	MW-05-210527	MW-08-210527	MW-15-210527	MW-13-210527
			Hydrostatigraphic Unit	Fill	Fill	Fill	Fill	Fill
			Tidal Stage	Lower-Low	Lower-Low	HigherHigh	Lower-Low	Lower-Low
			Tidal Trend	Incoming	Incoming	Outgoing	Outgoing	Outgoing
Analyte	Unit	Proposed RI CUL	Basis of CUL					
PCB-185	ug/L			**1.04E-4 J**	**1.39E-4**	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-186	ug/L			< 5.11E-6 U	< 4.9E-6 U	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-188	ug/L			< 5.11E-6 U	< 4.9E-6 U	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-189	ug/L			**3.14E-5 J**	**5.88E-5**	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-190	ug/L			**1.76E-4 J**	**2.76E-4**	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-191	ug/L			**4.1E-5**	**5.46E-5**	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-192	ug/L			< 5.11E-6 U	< 4.9E-6 U	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-193	ug/L			**9.59E-5**	**1.3E-4**	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-194	ug/L			**3.8E-4 J**	**5.46E-4**	**3.25E-5**	**1.53E-5**	**4.04E-6 J**
PCB-195	ug/L			**1.52E-4 J**	**2.08E-4**	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-196/203	ug/L			**4.71E-4 J**	**6.78E-4**	< 1.01E-5 U	**2.09E-5**	< 9.93E-6 U
PCB-197	ug/L			< 5.11E-6 UJ	**2.21E-5**	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-198	ug/L			< 5.11E-6 U	**2.94E-5**	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-199	ug/L			**4.1E-4 J**	**5.58E-4**	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-200	ug/L			< 5.11E-6 UJ	**7.92E-5**	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-201	ug/L			**6.29E-5 J**	**8.46E-5**	**4.46E-6 J**	< 5.15E-6 U	< 4.97E-6 U
PCB-202	ug/L			< 5.11E-6 UJ	**1.04E-4**	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-204	ug/L			< 5.11E-6 U	< 4.9E-6 U	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-205	ug/L			**2.07E-5 J**	< 4.9E-6 U	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-206	ug/L			**1.6E-4**	**2.6E-4**	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-207	ug/L			**2.35E-5 J**	**3.8E-5**	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-208	ug/L			**3.72E-5 J**	< 4.9E-6 U	< 5.04E-6 U	< 5.15E-6 U	< 4.97E-6 U
PCB-209	ug/L			**2.01E-5 J**	**3.31E-5**	**1.13E-5**	< 5.15E-6 U	< 4.97E-6 U
Total Decachlorobiphenyls	ug/L			**2.01E-5**	**3.31E-5**	**1.13E-5**	< 4.03E-6 U	< 1.26E-6 U
Total Dichlorobiphenyls	ug/L			**1.83E-2**	**4.32E-2**	< 8.21E-6 U	< 1.37E-5 U	< 1.2E-5 U
Total Heptachlorobiphenyls	ug/L			**7.15E-3 J**	**1.03E-2**	**4.86E-4 J**	**1.76E-4 J**	**5.3E-6 J**
Total Hexachlorobiphenyls	ug/L			**2.06E-2 J**	**4.38E-2 J**	**1.01E-3 J**	**5.44E-4 J**	**9.65E-6 J**
Total Monochlorobiphenyls	ug/L			**3.94E-5**	**1.22E-4**	< 5.0E-6 U	< 5.0E-6 U	< 5.0E-6 U
Total Nonachlorobiphenyls	ug/L			**2.21E-4**	**2.98E-4 J**	< 1.04E-5 J	< 2.53E-6 U	< 1.87E-6 U
Total Octachlorobiphenyls	ug/L			**1.5E-3 J**	**2.31E-3 J**	**3.69E-5 J**	**3.62E-5 J**	**4.04E-6**
Total Pentachlorobiphenyls	ug/L			**4.08E-2 J**	**9.28E-2 J**	**1.01E-3 J**	**4.12E-4 J**	**1.65E-5**
Total Tetrachlorobiphenyls	ug/L			**3.03E-2 J**	**6.2E-2 J**	**3.12E-4 J**	**8.27E-5 J**	**9.92E-6 J**
Total Trichlorobiphenyls	ug/L			**3.43E-2 J**	**4.86E-2**	**4.02E-5 J**	< 4.69E-6 U	**9.26E-6 J**
Total PCB Congeners (ND = 0)	ug/L	4.2E-04	GW-2, PQL Adj.	**1.53E-1 J**	**3.04E-1 J**	**2.88E-3 J**	**1.19E-3 J**	**3.74E-5 J**
Total PCB TEQ (ND = 0)	ug/L	1.5E-07	GW-2, PQL Adj.	**2.66E-6 J**	**4.73E-6**	**7.21E-10**	**1.22E-9**	< 4.97E-6 U

Notes:

Bold = detected

Gray Shaded = Nondetect result has an RDL that exceeds the Proposed RI CUL

Blue Shaded = Detected result exceeded the Proposed RI CUL

Proposed RI CUL = Proposed Remedial Investigation Cleanup Level

ug/L = micrograms per liter

U = Analyte not detected at or above the RDL shown

J = Result value estimated

UJ = Analyte not detected, and the RDL shown is an estimate

(ND = 0) = calculated using zero for nondetected components

TEQ = Toxic Equivalency

Table I.6.B.1. Individual PCB Aroclors in Vadose Soil

South Park Marina Site, Seattle, Washington

				Location	21F-SS-01	21F-SS-02	A10	A11	A12		B-01		B-02	B-03		
				Sample Date	09/14/21	09/14/21	01/17/06	01/24/06	01/24/06	01/24/06	11/17/17	11/17/17	11/17/17	11/17/17	11/17/17	11/17/17
				Sample	SPM 20210914	SPM 20210914	T117-A10-SB-01	T117-A11-SB-0.0-0.5	T117-A12-SB-0.0-0.5	T117-A12-SB-0.5-1.5	B-01-2-3	B-01-3.5-4.5	B-02-2.5-3	B-03-0-1	B-03-2-3	B-03-5-6
Analyte	Unit	Proposed RI CUL	Basis of CUL													
Polychlorinated Biphenyl Aroclors																
Aroclor 1016	mg/kg			< 0.051 U	< 0.051 U	< 0.033 U	< 0.033 U	< 0.23 U	< 0.076 U	< 0.55 U	< 0.054 U	< 0.58 U	< 1.1 U	< 1.1 U	< 1.2 U	
Aroclor 1221	mg/kg			< 0.051 U	< 0.051 U	< 0.033 U	< 0.033 U	< 0.23 U	< 0.076 U	< 0.55 U	< 0.054 U	< 0.58 U	< 1.1 U	< 1.1 U	< 1.2 U	
Aroclor 1232	mg/kg			< 0.051 U	< 0.051 U	< 0.033 U	< 0.033 U	< 0.23 U	< 0.076 U	< 0.55 U	< 0.054 U	< 0.58 U	< 1.1 U	< 1.1 U	< 1.2 U	
Aroclor 1242	mg/kg			< 0.051 U	< 0.051 U	< 0.033 U	< 0.033 U	< 0.23 U	< 0.076 U	< 0.55 U	< 0.054 U	< 0.58 U	< 1.1 U	**3.9**	**5.2**	
Aroclor 1248	mg/kg			< 0.051 U	< 0.051 U	< 0.033 U	< 0.033 U	< 0.23 U	< 0.076 U	< 0.55 U	< 0.054 U	< 0.58 U	< 1.1 U	< 1.1 U	< 1.2 U	
Aroclor 1254	mg/kg			**0.11**	**0.068**	< 0.033 U	**0.069**	**2.1**	**0.25**	**4.7**	**1.7**	**3.5**	**14**	**9.8**	**19**	
Aroclor 1260	mg/kg			**0.12**	**0.058**	**0.088**	**0.15 J**	**1.1 J**	**0.34**	**2.1**	**1.7**	< 0.58 U	**6.1**	**2.8**	**7.2**	
Aroclor 1262	mg/kg															
Aroclor 1268	mg/kg															
Total PCB Aroclors (ND = 0)	mg/kg	0.036	SL-3, PQL Adj.	**0.23 A**	**0.126 A**	**0.088 A**	**0.219 JA**	**3.2 JA**	**0.59 A**	**6.8 A**	**3.4 A**	**3.5 A**	**20.1 A**	**16.5 A**	**31.4 A**	

Notes:

Proposed RI CUL = Proposed Remedial Investigation Cleanup Level

Bold = detected

Gray Shaded = Nondetect result has an RDL that exceeds the Proposed RI CUL

Blue Shaded = Detected result exceeded the Proposed RI CUL

mg/kg = milligrams per kilogram

U = Analyte not detected at or above the RDL shown

J = Result value estimated

UJ = Analyte not detected, and the RDL shown is an estimate

A = One or more of the nine common Aroclor groups (1016, 1221, 1232, 1242, 1248, 1254, 1260, 1262, and 1268) were not reported, and the Total PCB Aroclors (ND = 0) sum assumes the missing components were nondetect.

Total PCB Aroclors (ND = 0) are the sum of Aroclors available, with nondetects = 0, unless all Aroclors were not detected, in which case the Total PCB Aroclors concentration is shown as nondetect at the maximum RDL for any individual Aroclor.

RDL = Reported Detection Limit

Table I.6.B.1. Individual PCB Aroclors in Vadose Soil

South Park Marina Site, Seattle, Washington

			Location	B-04			HA-01		HA-02		MW-04		MW-04D		MW-05	MW-05D
			Sample Date	11/17/17	11/17/17	11/17/17	03/11/21	03/11/21	03/11/21	03/11/21	03/04/21	03/04/21	09/22/22	09/22/22	03/05/21	09/21/22
			Sample	B-04-0-1	B-04-2-2.5	B-04-5-6	HA-1-0-1	HA-1-2-3	HA-2-0-1	HA-2-2-3	MW-4-0-1	MW-4-4-5	MW-04D-0-1	MW-04D-4.5-5.5	MW-5-0-1	MW-05D-0-1
Analyte	Unit	Proposed RI CUL	Basis of CUL													
Polychlorinated Biphenyl Aroclors																
Aroclor 1016	mg/kg			< 0.057 U	< 1.1 U	< 6.3 U	< 0.4 U	< 0.223 U	< 0.232 U	< 0.399 U	< 0.217 U	< 0.11 U	< 0.2 U	< 0.8 U	< 0.217 U	< 0.8 U
Aroclor 1221	mg/kg			< 0.057 U	< 1.1 U	< 6.3 U	< 0.4 U	< 0.223 U	< 0.232 U	< 0.399 U	< 0.217 U	< 0.11 U	< 0.2 U	< 0.8 U	< 0.217 U	< 0.8 U
Aroclor 1232	mg/kg			< 0.057 U	< 1.1 U	< 6.3 U	< 0.4 U	< 0.223 U	< 0.232 U	< 0.399 U	< 0.217 U	< 0.11 U	< 0.2 U	< 0.8 U	< 0.217 U	< 0.8 U
Aroclor 1242	mg/kg			< 0.057 U	**4**	< 6.3 U	< 0.4 U	< 0.223 U	< 0.232 U	< 0.399 U	< 0.217 U	< 0.11 U	< 0.2 U	< 0.8 U	< 0.217 U	< 0.8 U
Aroclor 1248	mg/kg			< 0.057 U	< 1.1 U	< 6.3 U	< 0.4 U	< 0.223 U	< 0.232 U	< 0.399 U	< 0.217 U	< 0.11 U	< 0.2 U	< 0.8 U	< 0.217 U	< 0.8 U
Aroclor 1254	mg/kg			**0.7**	**19**	**34**	**5**	**5.23**	**6.17**	**6.1**	**2.41**	**2.2**	**2.5**	**24**	**2.67**	**17**
Aroclor 1260	mg/kg			**0.64**	**5.3**	**10**	**2.24**	**1.34**	**2.14**	**1.08**	**1.78**	**1.34**	**1.9**	**10**	**1.08**	**5.3**
Aroclor 1262	mg/kg						< 0.4 U	< 0.223 U	< 0.232 U	< 0.399 U	< 0.217 U	< 0.11 U	< 0.2 U	< 0.8 U	< 0.217 U	< 0.8 U
Aroclor 1268	mg/kg						< 0.4 U	< 0.223 U	< 0.232 U	< 0.399 U	< 0.217 U	< 0.11 U	< 0.2 U	< 0.8 U	< 0.217 U	< 0.8 U
Total PCB Aroclors (ND = 0)	mg/kg	0.036	SL-3, PQL Adj.	**1.34 A**	**28.3 A**	**44 A**	**7.24**	**6.57**	**8.31**	**7.18**	**4.19**	**3.54**	**4.4**	**34**	**3.75**	**22.3**

Notes:

Proposed RI CUL = Proposed Remedial Investigation Cleanup Level

Bold = detected

Gray Shaded = Nondetect result has an RDL that exceeds the Proposed RI CUL

Blue Shaded = Detected result exceeded the Proposed RI CUL

mg/kg = milligrams per kilogram

U = Analyte not detected at or above the RDL shown

J = Result value estimated

UJ = Analyte not detected, and the RDL shown is an estimate

A = One or more of the nine common Aroclor groups (1016, 1221, 1232, 1242, 1248, 1254, 1260, 1262, and 1268) were not reported, and the Total PCB Aroclors (ND = 0) sum assumes the missing components were nondetect.

Total PCB Aroclors (ND = 0) are the sum of Aroclors available, with nondetects = 0, unless all Aroclors were not detected, in which case the Total PCB Aroclors concentration is shown as nondetect at the maximum RDL for any individual Aroclor.

RDL = Reported Detection Limit

Table I.6.B.1. Individual PCB Aroclors in Vadose Soil

South Park Marina Site, Seattle, Washington

				Location	MW-06		MW-06D	MW-07		MW-08	MW-09		MW-10	MW-11		MW-11D
				Sample Date	03/05/21	03/05/21	09/21/22	03/09/21	03/09/21	03/09/21	03/09/21	03/09/21	03/08/21	03/08/21	03/08/21	09/15/22
				Sample	MW-6-0-1	MW-6-4-5	MW-06D-0-1	MW-7-0-1	MW-7-5-6	MW-8-0-1	MW-9-0-1	MW-9-5-6	MW-10-0-1	MW-11-0-1	MW-11-3-5	MW-11D-0-1
Analyte	Unit	Proposed RI CUL	Basis of CUL													
Polychlorinated Biphenyl Aroclors																
Aroclor 1016	mg/kg			< 0.0199 U	< 0.004 U	< 0.08 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1221	mg/kg			< 0.0199 U	< 0.004 U	< 0.08 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1232	mg/kg			< 0.0199 U	< 0.004 U	< 0.08 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1242	mg/kg			< 0.0199 U	< 0.004 U	< 0.08 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1248	mg/kg			< 0.0199 U	< 0.004 U	< 0.08 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1254	mg/kg			**0.0628**	**0.06**	**0.37**	**0.0222**	**0.0124**	**0.021**	< 0.004 U	< 0.004 U	**0.0129**	< 0.004 U	**0.008**	**0.005**	
Aroclor 1260	mg/kg			**0.168**	**0.0843**	**1.1**	**0.0703**	**0.0298**	**0.0591**	**0.0009 J**	< 0.004 U	**0.0398**	**0.0799**	**0.0154**	**0.036**	
Aroclor 1262	mg/kg			< 0.0199 U	< 0.004 U	< 0.08 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1268	mg/kg			< 0.0199 U	< 0.004 U	< 0.08 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
Total PCB Aroclors (ND = 0)	mg/kg	0.036	SL-3, PQL Adj.	**0.231**	**0.144**	**1.47**	**0.0925**	**0.0422**	**0.0801**	**0.0009 J**	< 0.004 U	**0.0527**	**0.0799**	**0.0234**	**0.041**	

Notes:

Proposed RI CUL = Proposed Remedial Investigation Cleanup Level

Bold = detected

Gray Shaded = Nondetect result has an RDL that exceeds the Proposed RI CUL

Blue Shaded = Detected result exceeded the Proposed RI CUL

mg/kg = milligrams per kilogram

U = Analyte not detected at or above the RDL shown

J = Result value estimated

UJ = Analyte not detected, and the RDL shown is an estimate

A = One or more of the nine common Aroclor groups (1016, 1221, 1232, 1242, 1248, 1254, 1260, 1262, and 1268) were not reported, and the Total PCB Aroclors (ND = 0) sum assumes the missing components were nondetect.

Total PCB Aroclors (ND = 0) are the sum of Aroclors available, with nondetects = 0, unless all Aroclors were not detected, in which case the Total PCB Aroclors concentration is shown as nondetect at the maximum RDL for any individual Aroclor.

RDL = Reported Detection Limit

Table I.6.B.1. Individual PCB Aroclors in Vadose Soil

South Park Marina Site, Seattle, Washington

			Location	MW-12		MW-13		MW-14		MW-15		MW-16		MW-17	MW-18D	MW-19D	MW-20
			Sample Date	03/03/21	03/03/21	03/01/21	03/01/21	03/01/21	03/10/21	03/03/21	03/03/21	09/23/22	09/23/22	09/14/22	09/12/22	09/14/22	09/14/22
			Sample	MW-12-0-1	MW-12-3-5	MW-13-0-1	MW-13-3-5	MW-14-4.5-5	MW-14A-0-1	MW-15-0-1	MW-15-3-5	MW-16-0-1	MW-16-1.5-2	MW-17-0-1	MW-18D-0-1	MW-19D-0-1	MW-20-0.5-1.5
Analyte	Unit	Proposed RI CUL	Basis of CUL														
Polychlorinated Biphenyl Aroclors																	
Aroclor 1016	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.02 U	< 0.004 U	< 0.004 U	< 2 U	< 0.8 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1221	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.02 U	< 0.004 U	< 0.004 U	< 2 U	< 0.8 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1232	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.02 U	< 0.004 U	< 0.004 U	< 2 U	< 0.8 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1242	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.02 U	< 0.004 U	< 0.004 U	< 2 U	**1.1**	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1248	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.02 U	< 0.004 U	< 0.004 U	< 2 U	< 0.8 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1254	mg/kg			**0.0096**	**0.015**	< 0.004 U	< 0.004 U	**0.0026 J**	**0.0266**	**0.0834**	< 0.004 U	**36**	**27**	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1260	mg/kg			**0.013**	**0.0392**	< 0.004 U	< 0.004 U	**0.004 J**	**0.0249**	**0.0398**	< 0.004 U	< 2 U	**8**	**4.8**	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1262	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.02 U	< 0.004 U	< 0.004 U	< 2 U	< 0.8 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1268	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.02 U	< 0.004 U	< 0.004 U	< 2 U	< 0.8 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
Total PCB Aroclors (ND = 0)	mg/kg	0.036	SL-3, PQL Adj.	**0.0226**	**0.0542**	< 0.004 U	< 0.004 U	**0.0066 J**	**0.0515**	**0.123**	< 0.004 U	**36**	**36.1**	**4.8**	< 0.004 U	< 0.004 U	< 0.004 U

Notes:

Proposed RI CUL = Proposed Remedial Investigation Cleanup Level

Bold = detected

Gray Shaded = Nondetect result has an RDL that exceeds the Proposed RI CUL

Blue Shaded = Detected result exceeded the Proposed RI CUL

mg/kg = milligrams per kilogram

U = Analyte not detected at or above the RDL shown

J = Result value estimated

UJ = Analyte not detected, and the RDL shown is an estimate

A = One or more of the nine common Aroclor groups (1016, 1221, 1232, 1242, 1248, 1254, 1260, 1262, and 1268) were not reported, and the Total PCB Aroclors (ND = 0) sum assumes the missing components were nondetect.

Total PCB Aroclors (ND = 0) are the sum of Aroclors available, with nondetects = 0, unless all Aroclors were not detected, in which case the Total PCB Aroclors concentration is shown as nondetect at the maximum RDL for any individual Aroclor.

RDL = Reported Detection Limit

Table I.6.B.1. Individual PCB Aroclors in Vadose Soil

South Park Marina Site, Seattle, Washington

Analyte	Unit	Proposed RI CUL	Basis of CUL	Location	MW-21	MW-22	SB-02	SB-11	SB-12	SB-13		SB-14	SB-15	SB-16	SB-26	SB-27	SB-28	SB-29	
				Sample Date	09/14/22	09/14/22	10/01/07	09/28/07	09/28/07	10/01/07	10/01/07	10/01/07	10/01/07	10/01/07	03/04/21	03/09/21	03/01/21	03/01/21	03/01/21
				Sample	MW-21-5-6	MW-22-5-6	SB-02-1	SB-11-2.5	SB-12-1.5	SB-13-1	SB-13-3.5	SB-14-3	SB-15-3.5	SB-16-3.5	SB-26-0-1	SB-27-0-1	SB-28-0-1	SB-29-0-1	SB-29A-3-5
Polychlorinated Biphenyl Aroclors																			
Aroclor 1016	mg/kg				< 0.004 U	< 0.004 U	< 0.0099 U	< 1 U	< 0.099 U	< 0.0099 U	< 0.01 U	< 0.1 U	< 1 U	< 1 U	< 1.39 U	< 0.0199 U	< 0.004 U	< 0.004 U	< 0.0039 U
Aroclor 1221	mg/kg				< 0.004 U	< 0.004 U									< 1.39 U	< 0.0199 U	< 0.004 U	< 0.004 U	< 0.0039 U
Aroclor 1232	mg/kg				< 0.004 U	< 0.004 U									< 1.39 U	< 0.0199 U	< 0.004 U	< 0.004 U	< 0.0039 U
Aroclor 1242	mg/kg				< 0.004 U	< 0.004 U									< 1.39 U	< 0.0199 U	< 0.004 U	< 0.004 U	< 0.0039 U
Aroclor 1248	mg/kg				< 0.004 U	< 0.004 U	< 0.0099 U	< 1 U	< 0.099 U	< 0.0099 U	< 0.01 U	< 0.1 U	< 1 U	< 1 U	< 1.39 UJ	< 0.0199 U	< 0.004 U	< 0.004 U	< 0.0039 U
Aroclor 1254	mg/kg				< 0.004 U	< 0.004 U	< 0.0099 U	**29**	**4.9**	< 0.0099 U	< 0.01 U	**5.5**	**12**	**36**	**36.7**	**0.0952**	< 0.004 U	< 0.004 U	< 0.0039 U
Aroclor 1260	mg/kg				< 0.004 U	< 0.004 U	< 0.0099 U	< 1 U	< 0.099 U	**0.0084**	< 0.01 U	**5.1**	< 1 U	< 1 U	**6.77 J**	**0.16**	**0.0521**	**0.0199**	< 0.0039 U
Aroclor 1262	mg/kg				< 0.004 U	< 0.004 U									< 1.39 U	< 0.0199 U	< 0.004 U	< 0.004 U	< 0.0039 U
Aroclor 1268	mg/kg				< 0.004 U	< 0.004 U									< 1.39 U	< 0.0199 U	< 0.004 U	< 0.004 U	< 0.0039 U
Total PCB Aroclors (ND = 0)	mg/kg	0.036	SL-3, PQL Adj.		< 0.004 U	< 0.004 U	< 0.0099 UA	**29 A**	**4.9 A**	**0.0084 A**	< 0.01 UA	**10.6 A**	**12 A**	**36 A**	**43.5 J**	**0.255**	**0.0521**	**0.0199**	< 0.0039 U

Notes:

Proposed RI CUL = Proposed Remedial Investigation Cleanup Level

Bold = detected

Gray Shaded = Nondetect result has an RDL that exceeds the Proposed RI CUL

Blue Shaded = Detected result exceeded the Proposed RI CUL

mg/kg = milligrams per kilogram

U = Analyte not detected at or above the RDL shown

J = Result value estimated

UJ = Analyte not detected, and the RDL shown is an estimate

A = One or more of the nine common Aroclor groups (1016, 1221, 1232, 1242, 1248, 1254, 1260, 1262, and 1268) were not reported, and the Total PCB Aroclors (ND = 0) sum assumes the missing components were nondetect.

Total PCB Aroclors (ND = 0) are the sum of Aroclors available, with nondetects = 0, unless all Aroclors were not detected, in which case the Total PCB Aroclors concentration is shown as nondetect at the maximum RDL for any individual Aroclor.

RDL = Reported Detection Limit

Table I.6.B.1. Individual PCB Aroclors in Vadose Soil

South Park Marina Site, Seattle, Washington

Location				SB-30		SB-31		SB-32		SB-33		SB-34		SB-35	SB-36	SB-37		
Sample Date				03/01/21	03/01/21	03/01/21	03/01/21	03/08/21	03/08/21	03/03/21	03/03/21	03/01/21	03/01/21	09/12/22	09/12/22	09/13/22	09/13/22	09/13/22
Sample				SB-30-0-1	SB-30A-3-5	SB-31-0-1	SB-31A-3-5	SB-32-0-1	SB-32-4-5	SB-33-0-1	SB-33-3-5	SB-34-0-1	SB-34-3-4	SB-35-3-4	SB-36-2-3	SB-37-0-1	SB-37-1-2	SB-37-5-6
Analyte	Unit	Proposed RI CUL	Basis of CUL															
Polychlorinated Biphenyl Aroclors																		
Aroclor 1016	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.0399 U	< 0.004 U	< 0.02 U	< 0.004 U	< 0.0035 U	< 0.0035 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1221	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.0399 U	< 0.004 U	< 0.02 U	< 0.004 U	< 0.0035 U	< 0.0035 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1232	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.0399 U	< 0.004 U	< 0.02 U	< 0.004 U	< 0.0035 U	< 0.0035 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1242	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.0399 U	< 0.004 U	< 0.02 U	< 0.004 U	< 0.0035 U	< 0.0035 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1248	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.0399 U	< 0.004 U	< 0.02 U	< 0.004 U	< 0.0035 U	< 0.0035 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1254	mg/kg			< 0.004 U	< 0.004 U	**0.0045**	< 0.004 U	< 0.0399 U	**0.0109**	**0.271**	**0.0068**	**0.038**	**0.002 J**	< 0.004 U	**0.037**	**6.8**	**6.5**	< 0.004 U
Aroclor 1260	mg/kg			**0.0033 J**	**0.0022 J**	**0.0246**	**0.0019 J**	**0.746 J**	**0.0131**	**0.467**	**0.028**	**0.0557**	**0.0007 J**	< 0.004 U	**0.068**	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1262	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.0399 U	< 0.004 U	< 0.02 U	< 0.004 U	< 0.0035 U	< 0.0035 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1268	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.0399 U	< 0.004 U	< 0.02 U	< 0.004 U	< 0.0035 U	< 0.0035 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
Total PCB Aroclors (ND = 0)	mg/kg	0.036	SL-3, PQL Adj.	**0.0033 J**	**0.0022 J**	**0.0291**	**0.0019 J**	**0.746 J**	**0.024**	**0.738**	**0.0348**	**0.0937**	**0.0027 J**	< 0.004 U	**0.105**	**6.8**	**6.5**	< 0.004 U

Notes:

Proposed RI CUL = Proposed Remedial Investigation Cleanup Level

Bold = detected

Gray Shaded = Nondetect result has an RDL that exceeds the Proposed RI CUL

Blue Shaded = Detected result exceeded the Proposed RI CUL

mg/kg = milligrams per kilogram

U = Analyte not detected at or above the RDL shown

J = Result value estimated

UJ = Analyte not detected, and the RDL shown is an estimate

A = One or more of the nine common Aroclor groups (1016, 1221, 1232, 1242, 1248, 1254, 1260, 1262, and 1268) were not reported, and the Total PCB Aroclors (ND = 0) sum assumes the missing components were nondetect.

Total PCB Aroclors (ND = 0) are the sum of Aroclors available, with nondetects = 0, unless all Aroclors were not detected, in which case the Total PCB Aroclors concentration is shown as nondetect at the maximum RDL for any individual Aroclor.

RDL = Reported Detection Limit

Table I.6.B.1. Individual PCB Aroclors in Vadose Soil

South Park Marina Site, Seattle, Washington

Location				SB-38		SB-39		SB-40		SB-41		SB-42		SB-43	SS-01	SS-02	SS-03	SS-04
Sample Date				09/12/22	09/12/22	09/13/22	09/13/22	09/26/22	09/26/22	09/13/22	09/13/22	09/22/22	09/22/22	09/26/22	02/09/16	02/09/16	02/09/16	02/10/16
Sample				SB-38-0-1	SB-38-5-6	SB-39-0-1	SB-39-5-6	SB-40-0-1	SB-40-5-6	SB-41-0-1	SB-41-5-6	SB-42-0-1	SB-42-3.5-4.5	SB-43-2.5-3.5	SPM-SS-01-	SPM-SS-02-	SPM-SS-03-	SPM-SS-04-
Analyte	Unit	Proposed RI CUL	Basis of CUL															
Polychlorinated Biphenyl Aroclors																		
Aroclor 1016	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.08 U	< 0.004 U	< 0.004 U	< 0.004 U	< 2 U	< 0.4 U	< 0.04 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.08 U
Aroclor 1221	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.08 U	< 0.004 U	< 0.004 U	< 0.004 U	< 2 U	< 0.4 U	< 0.04 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.08 U
Aroclor 1232	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.08 U	< 0.004 U	< 0.004 U	< 0.004 U	< 2 U	< 0.4 U	< 0.04 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.08 U
Aroclor 1242	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.08 U	< 0.004 U	< 0.004 U	< 0.004 U	< 2 U	**1.1**	< 0.04 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.08 U
Aroclor 1248	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.08 U	< 0.004 U	< 0.004 U	< 0.004 U	< 2 U	< 0.4 U	< 0.04 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.08 U
Aroclor 1254	mg/kg			**3.5**	< 0.004 U	**24**	**0.94**	**0.12**	< 0.004 U	**0.049**	< 0.004 U	< 2 U	**8**	**4.5**	< 0.004 U	< 0.004 U	< 0.004 U	< 0.08 U
Aroclor 1260	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	**0.48**	**1.2**	**0.028**	**0.096**	< 0.004 U	**50**	**2.2**	**3.6**	**0.0075**	**0.014**	**0.094**	**0.21**
Aroclor 1262	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.08 U	< 0.004 U	< 0.004 U	< 0.004 U	< 2 U	< 0.4 U	< 0.04 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.08 U
Aroclor 1268	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.08 U	< 0.004 U	< 0.004 U	< 0.004 U	< 2 U	< 0.4 U	< 0.04 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.08 U
Total PCB Aroclors (ND = 0)	mg/kg	0.036	SL-3, PQL Adj.	**3.5**	< 0.004 U	**24**	**1.42**	**1.32**	**0.028**	**0.145**	< 0.004 U	**50**	**11.3**	**8.1**	**0.0075**	**0.014**	**0.094**	**0.21**

Notes:

Proposed RI CUL = Proposed Remedial Investigation Cleanup Level

Bold = detected

Gray Shaded = Nondetect result has an RDL that exceeds the Proposed RI CUL

Blue Shaded = Detected result exceeded the Proposed RI CUL

mg/kg = milligrams per kilogram

U = Analyte not detected at or above the RDL shown

J = Result value estimated

UJ = Analyte not detected, and the RDL shown is an estimate

A = One or more of the nine common Aroclor groups (1016, 1221, 1232, 1242, 1248, 1254, 1260, 1262, and 1268) were not reported, and the Total PCB Aroclors (ND = 0) sum assumes the missing components were nondetect.

Total PCB Aroclors (ND = 0) are the sum of Aroclors available, with nondetects = 0, unless all Aroclors were not detected, in which case the Total PCB Aroclors concentration is shown as nondetect at the maximum RDL for any individual Aroclor.

RDL = Reported Detection Limit

Table I.6.B.1. Individual PCB Aroclors in Vadose Soil

South Park Marina Site, Seattle, Washington

Analyte	Unit	Proposed RI CUL	Basis of CUL	Location	SS-05	SS-06	SS-07	SS-08	SS-09	SS-10	SS-11	SS-12	SS-13	SS-14	SS-15	SS-16	SS-17	SS-18	SS-19
				Sample Date	02/10/16	02/10/16	02/09/16	02/09/16	02/10/16	02/10/16	02/10/16	02/09/16	02/10/16	02/10/16	02/09/16	02/09/16	02/10/16	02/10/16	02/10/16
				Sample	SPM-SS-05-	SPM-SS-06-	SPM-SS-07-	SPM-SS-08-	SPM-SS-09-	SPM-SS-10-	SPM-SS-11-	SPM-SS-12-	SPM-SS-13-	SPM-SS-14-	SPM-SS-15-	SPM-SS-16-	SPM-SS-17-	SPM-SS-18-	SPM-SS-19-
Polychlorinated Biphenyl Aroclors																			
Aroclor 1016	mg/kg				< 0.08 U	< 0.08 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.08 U
Aroclor 1221	mg/kg				< 0.08 U	< 0.08 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.08 U
Aroclor 1232	mg/kg				< 0.08 U	< 0.08 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.08 U
Aroclor 1242	mg/kg				< 0.08 U	< 0.08 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.08 U
Aroclor 1248	mg/kg				< 0.08 U	< 0.08 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.08 U
Aroclor 1254	mg/kg				< 0.08 U	< 0.08 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.08 U
Aroclor 1260	mg/kg				**0.82**	< 0.08 U	**0.0048**	**0.0715**	**0.05**	< 0.004 U	**0.019**	**0.017**	**0.061**	**0.027**	**0.052**	**0.36**	< 0.004 U	**0.25**	**0.77**
Aroclor 1262	mg/kg				< 0.08 U	< 0.08 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.08 U
Aroclor 1268	mg/kg				< 0.08 U	< 0.08 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.08 U
Total PCB Aroclors (ND = 0)	mg/kg	0.036	SL-3, PQL Adj.		**0.82**	< 0.08 U	**0.0048**	**0.0715**	**0.05**	< 0.004 U	**0.019**	**0.017**	**0.061**	**0.027**	**0.052**	**0.36**	< 0.004 U	**0.25**	**0.77**

Notes:

Proposed RI CUL = Proposed Remedial Investigation Cleanup Level

Bold = detected

Gray Shaded = Nondetect result has an RDL that exceeds the Proposed RI CUL

Blue Shaded = Detected result exceeded the Proposed RI CUL

mg/kg = milligrams per kilogram

U = Analyte not detected at or above the RDL shown

J = Result value estimated

UJ = Analyte not detected, and the RDL shown is an estimate

A = One or more of the nine common Aroclor groups (1016, 1221, 1232, 1242, 1248, 1254, 1260, 1262, and 1268) were not reported, and the Total PCB Aroclors (ND = 0) sum assumes the missing components were nondetect.

Total PCB Aroclors (ND = 0) are the sum of Aroclors available, with nondetects = 0, unless all Aroclors were not detected, in which case the Total PCB Aroclors concentration is shown as nondetect at the maximum RDL for any individual Aroclor.

RDL = Reported Detection Limit

Table I.6.B.1. Individual PCB Aroclors in Vadose Soil

South Park Marina Site, Seattle, Washington

Analyte	Unit	Proposed RI CUL	Basis of CUL	Location	SS-20	SS-21	SS-22	SS-23	SS-24	SS-25	SS-26	SS-27	SS-31	SS-32	SS-33	SS-34	SS-35	SS-36	SS-37
				Sample Date	02/10/16	02/08/16	02/08/16	02/08/16	02/10/16	02/08/16	02/08/16	02/08/16	11/17/17	11/17/17	11/17/17	11/17/17	11/17/17	11/17/17	11/17/17
				Sample	SPM-SS-20-	SPM-SS-21-	SPM-SS-22-	SPM-SS-23-	SPM-SS-24-	SPM-SS-25-	SPM-SS-26-	SPM-SS-27-	SS-31-0-1.5	SS-32-0-1.5	SS-33-0-1.5	SS-34-0-1.5	SS-35-0-1.5	SS-36-0-1.5	SS-37-0-1.5
Polychlorinated Biphenyl Aroclors																			
Aroclor 1016	mg/kg				< 0.08 U	< 0.04 UJ	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.04 U	< 0.004 U	< 0.054 U	< 0.052 U	< 5.4 U	< 0.053 U	< 0.052 U	< 0.54 U	< 0.053 U
Aroclor 1221	mg/kg				< 0.08 U	< 0.04 UJ	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.04 U	< 0.004 U	< 0.054 U	< 0.052 U	< 5.4 U	< 0.053 U	< 0.052 U	< 0.54 U	< 0.053 U
Aroclor 1232	mg/kg				< 0.08 U	< 0.04 UJ	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.04 U	< 0.004 U	< 0.054 U	< 0.052 U	< 5.4 U	< 0.053 U	< 0.052 U	< 0.54 U	< 0.053 U
Aroclor 1242	mg/kg				< 0.08 U	< 0.04 UJ	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.04 U	< 0.004 U	< 0.054 U	< 0.052 U	< 5.4 U	< 0.053 U	< 0.052 U	< 0.54 U	< 0.053 U
Aroclor 1248	mg/kg				< 0.08 U	< 0.04 UJ	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.04 U	< 0.004 U	< 0.054 U	< 0.052 U	< 5.4 U	< 0.053 U	< 0.052 U	< 0.54 U	< 0.053 U
Aroclor 1254	mg/kg				< 0.08 U	< 0.04 UJ	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	**0.11**	< 0.004 U	< 0.054 U	< 0.052 U	< 5.4 U	< 0.053 U	< 0.052 U	**1.8**	< 0.053 U
Aroclor 1260	mg/kg				< 0.08 U	**16 J**	**0.22**	**0.083**	**0.074**	**0.6**	**0.5**	**0.041**	**0.064**	**0.2**	**29**	< 0.053 U	< 0.052 U	**3.8**	< 0.053 U
Aroclor 1262	mg/kg				< 0.08 U	< 0.04 UJ	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.04 U	< 0.004 U							
Aroclor 1268	mg/kg				< 0.08 U	< 0.04 UJ	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.04 U	< 0.004 U							
Total PCB Aroclors (ND = 0)	mg/kg	0.036	SL-3, PQL Adj.		< 0.08 U	**16 J**	**0.22**	**0.083**	**0.074**	**0.6**	**0.61**	**0.041**	**0.064 A**	**0.2 A**	**29 A**	< 0.053 UA	< 0.052 UA	**5.6 A**	< 0.053 UA

Notes:

Proposed RI CUL = Proposed Remedial Investigation Cleanup Level

Bold = detected

Gray Shaded = Nondetect result has an RDL that exceeds the Proposed RI CUL

Blue Shaded = Detected result exceeded the Proposed RI CUL

mg/kg = milligrams per kilogram

U = Analyte not detected at or above the RDL shown

J = Result value estimated

UJ = Analyte not detected, and the RDL shown is an estimate

A = One or more of the nine common Aroclor groups (1016, 1221, 1232, 1242, 1248, 1254, 1260, 1262, and 1268) were not reported, and the Total PCB Aroclors (ND = 0) sum assumes the missing components were nondetect.

Total PCB Aroclors (ND = 0) are the sum of Aroclors available, with nondetects = 0, unless all Aroclors were not detected, in which case the Total PCB Aroclors concentration is shown as nondetect at the maximum RDL for any individual Aroclor.

RDL = Reported Detection Limit

Table I.6.B.1. Individual PCB Aroclors in Vadose Soil

South Park Marina Site, Seattle, Washington

			Location	**SS-38**	**SS-39**
			Sample Date	11/17/17	11/17/17
			Sample	SS-38-0-1	SS-39-0-1.25
Analyte	Unit	Proposed RI CUL	Basis of CUL		
Polychlorinated Biphenyl Aroclors					
Aroclor 1016	mg/kg			< 5.5 U	< 1.1 U
Aroclor 1221	mg/kg			< 5.5 U	< 1.1 U
Aroclor 1232	mg/kg			< 5.5 U	< 1.1 U
Aroclor 1242	mg/kg			< 5.5 U	< 1.1 U
Aroclor 1248	mg/kg			< 5.5 U	< 1.1 U
Aroclor 1254	mg/kg			**12**	**10**
Aroclor 1260	mg/kg			**54**	< 1.1 U
Aroclor 1262	mg/kg				
Aroclor 1268	mg/kg				
Total PCB Aroclors (ND = 0)	mg/kg	0.036	SL-3, PQL Adj.	**66 A**	**10 A**

Notes:

Proposed RI CUL = Proposed Remedial Investigation Cleanup Level

Bold = detected

Gray Shaded = Nondetect result has an RDL that exceeds the Proposed RI CUL

Blue Shaded = Detected result exceeded the Proposed RI CUL

mg/kg = milligrams per kilogram

U = Analyte not detected at or above the RDL shown

J = Result value estimated

UJ = Analyte not detected, and the RDL shown is an estimate

A = One or more of the nine common Aroclor groups (1016, 1221, 1232, 1242, 1248, 1254, 1260, 1262, and 1268) were not reported, and the Total PCB Aroclors (ND = 0) sum assumes the missing components were nondetect.

Total PCB Aroclors (ND = 0) are the sum of Aroclors available, with nondetects = 0, unless all Aroclors were not detected, in which case the Total PCB Aroclors concentration is shown as nondetect at the maximum RDL for any individual Aroclor.

RDL = Reported Detection Limit

Table I.6.B.2. Individual PCB Congeners and Co-Located Aroclors in Vadose Soil

South Park Marina Site, Seattle, Washington

			Location	B-01	B-03	B-04	MW-04	MW-04D	
			Sample Date	11/17/17	11/17/17	11/17/17	03/04/21	09/22/22	09/22/22
			Sample	B-01-2-3	B-03-0-1	B-04-5-6	MW-4-0-1	MW-04D-0-1	MW-04D-0-1-TIG
Analyte	Unit	Proposed RI CUL	Basis of CUL						
Polychlorinated Biphenyl Aroclors									
Aroclor 1016	mg/kg			< 0.55 U	< 1.1 U	< 6.3 U	< 0.217 U	< 0.2 U	
Aroclor 1221	mg/kg			< 0.55 U	< 1.1 U	< 6.3 U	< 0.217 U	< 0.2 U	
Aroclor 1232	mg/kg			< 0.55 U	< 1.1 U	< 6.3 U	< 0.217 U	< 0.2 U	
Aroclor 1242	mg/kg			< 0.55 U	< 1.1 U	< 6.3 U	< 0.217 U	< 0.2 U	
Aroclor 1248	mg/kg			< 0.55 U	< 1.1 U	< 6.3 U	< 0.217 U	< 0.2 U	
Aroclor 1254	mg/kg			**4.7**	**14**	**34**	**2.41**	**2.5**	
Aroclor 1260	mg/kg			**2.1**	**6.1**	**10**	**1.78**	**1.9**	
Aroclor 1262	mg/kg						< 0.217 U	< 0.2 U	
Aroclor 1268	mg/kg						< 0.217 U	< 0.2 U	
Total PCB Aroclors (ND = 0)	mg/kg	0.036	SL-3, PQL Adj.	**6.8 A**	**20.1 A**	**44 A**	**4.19**	**4.4**	
Polychlorinated Biphenyl Congeners									
PCB-001	mg/kg			**1.00E-3**	**1.92E-2**	**8.36E-1**	**5.01E-4**		**3.37E-4**
PCB-002	mg/kg			**2.93E-4**	**5.35E-3**	**1.09E-1**	**1.25E-4**		**9.45E-5**
PCB-003	mg/kg			**1.71E-3**	**4.12E-2**	**7.41E-1**	**9.59E-4**		**7.08E-4**
PCB-004/010	mg/kg			< 5.00E-4 U	**4.38E-3**	**5.87E-1**	**1.71E-4**		< 1.23E-4 U
PCB-005/008	mg/kg			**9.40E-4**	**1.44E-2**	**1.09E+0**	**5.20E-4**		**4.92E-4**
PCB-006	mg/kg			< 2.50E-4 U	**3.45E-3**	**1.86E-1**	**1.16E-4**		< 6.15E-5 U
PCB-007/009	mg/kg			< 5.00E-4 U	**2.19E-3**	**1.80E-1**	**9.45E-5**		< 1.23E-4 U
PCB-011	mg/kg			< 2.50E-4 U	**4.46E-4**	**5.29E-3**	**2.87E-5**		< 6.15E-5 U
PCB-012/013	mg/kg			< 5.00E-4 U	**3.76E-3**	**9.70E-2**	**1.79E-4**		< 1.23E-4 U
PCB-014	mg/kg			< 2.50E-4 U	< 1.18E-4 U	< 2.31E-4 U	< 2.49E-5 U		< 6.15E-5 U
PCB-015	mg/kg			**2.10E-3**	**2.85E-2**	**4.42E-1**	**2.38E-3**		**2.30E-3**
PCB-016/032	mg/kg			**9.00E-4**	**1.22E-2**	**4.56E-1**	**6.40E-4**		**2.89E-4**
PCB-017	mg/kg			**2.90E-4**	**3.88E-3**	**3.03E-1**	**1.98E-4**		**1.39E-4**
PCB-018	mg/kg			**8.91E-4**	**1.10E-2**	**7.56E-1**	**5.11E-4**		**3.59E-4**
PCB-019	mg/kg			**4.01E-4**	**4.66E-3**	**8.09E-2**	**2.06E-4**		**9.35E-5**
PCB-020/021/033	mg/kg			**8.40E-4**	**1.05E-2**	**6.05E-1**	**4.69E-4**		**3.54E-4**
PCB-022	mg/kg			**4.61E-4**	**6.41E-3**	**3.41E-1**	**2.45E-4**		**2.07E-4**
PCB-023	mg/kg			< 2.50E-4 U	**2.40E-5 J**	**1.75E-3**	< 2.49E-5 U		< 6.15E-5 U
PCB-024/027	mg/kg			**1.19E-4 J**	**2.25E-3**	**5.33E-2**	**9.33E-5**		**4.98E-5 J**
PCB-025	mg/kg			**1.03E-4 J**	**1.56E-3**	**9.03E-2**	**6.75E-5**		**5.62E-5 J**
PCB-026	mg/kg			**2.16E-4 J**	**3.38E-3**	**1.69E-1**	**1.44E-4**		**1.21E-4**
PCB-028	mg/kg			**1.29E-3**	**1.86E-2**	**9.53E-1 J**	**7.86E-4**		**7.13E-4**
PCB-029	mg/kg			< 2.50E-4 U	**1.14E-4 J**	**1.04E-2**	< 2.49E-5 U		< 6.15E-5 U
PCB-030	mg/kg			< 2.50E-4 U	< 1.18E-4 U	**5.60E-4**	< 2.49E-5 U		< 6.15E-5 U
PCB-031	mg/kg			**1.13E-3**	**1.72E-2**	**9.59E-1 J**	**5.91E-4**		**5.83E-4**
PCB-034	mg/kg			< 2.50E-4 U	**5.55E-5 J**	**7.38E-3**	< 2.49E-5 U		< 6.15E-5 U
PCB-035	mg/kg			**6.33E-5 J**	**5.25E-4**	**1.03E-2**	**3.11E-5**		**2.73E-5 J**
PCB-036	mg/kg			< 2.50E-4 U	**1.83E-5 J**	**1.01E-4 J**	< 2.49E-5 U		< 6.15E-5 U
PCB-037	mg/kg			**1.04E-3**	**1.20E-2**	**2.42E-1**	**9.55E-4**		**5.99E-4**
PCB-038	mg/kg			**9.20E-5 J**	**6.16E-4**	**1.93E-2**	**7.31E-5**		**3.48E-5 J**
PCB-039	mg/kg			< 2.50E-4 U	**2.40E-5 J**	**9.64E-4**	< 2.49E-5 U		< 6.15E-5 U
PCB-040	mg/kg			**3.66E-3**	**1.97E-2**	**1.58E-1**	**1.52E-3**		**4.38E-4**
PCB-041/064/071/072	mg/kg			**1.34E-2**	**6.71E-2**	**1.09E+0**	**6.72E-3**		**3.50E-3**
PCB-042	mg/kg								
PCB-042/059	mg/kg			**4.19E-3**	**2.91E-2**	**3.85E-1**	**2.38E-3**		**8.01E-4**
PCB-043/049	mg/kg			**1.52E-2**	**9.16E-2**	**2.06E+0 J**	**8.63E-3**		**6.60E-3**
PCB-044	mg/kg			**4.43E-2**	**1.67E-1**	**2.25E+0 J**	**8.55E-3**		**4.17E-3**
PCB-045	mg/kg			**2.53E-3**	**1.60E-2**	**8.55E-2**	**1.19E-3**		**3.31E-4**
PCB-046	mg/kg			**1.20E-3**	**6.70E-3**	**3.86E-2**	**4.89E-4**		**1.56E-4**
PCB-047	mg/kg			**3.77E-3**	**3.12E-2**	**6.44E-1**	**2.58E-3**		**1.50E-3**
PCB-048/075	mg/kg			**6.99E-4**	**4.79E-3**	**1.73E-1**	**3.59E-4**		**1.44E-4**
PCB-050	mg/kg			< 2.50E-4 U	**1.89E-4**	**2.91E-3**	< 2.49E-5 U		< 6.15E-5 U
PCB-051	mg/kg			**8.51E-4**	**4.75E-3**	**2.44E-2**	**3.28E-4**		**1.10E-4**
PCB-052/069	mg/kg			**1.04E-1**	**3.40E-1**	**4.07E+0 J**	**2.04E-2**		**2.86E-2**
PCB-053	mg/kg			**4.74E-3**	**2.24E-2**	**1.31E-1**	**1.27E-3**		**7.23E-4**
PCB-054	mg/kg			< 2.50E-4 U	**2.90E-4**	**1.18E-3**	**1.77E-5 J**		< 6.15E-5 U
PCB-055	mg/kg			**1.83E-3**	**4.37E-3**	**3.66E-2**	**1.08E-4**		< 6.15E-5 U
PCB-056/060	mg/kg			**3.96E-3**	**2.50E-2**	**6.54E-1**	**2.70E-3**		**1.38E-3**
PCB-057	mg/kg			< 2.50E-4 U	**2.17E-4**	**5.23E-3**	< 2.49E-5 U		**4.01E-5 J**
PCB-058	mg/kg			< 2.50E-4 U	**5.05E-4**	**2.31E-2**	< 2.49E-5 U		< 6.15E-5 U
PCB-061/070	mg/kg			**3.77E-2**	**9.80E-2**	**3.77E+0 J**	**1.63E-2**		**1.11E-2**
PCB-062	mg/kg			< 2.50E-4 U	< 1.18E-4 U	< 2.31E-4 U	< 2.49E-5 U		< 6.15E-5 U
PCB-063	mg/kg			**1.35E-4 J**	**7.96E-4**	**1.03E-1**	< 2.49E-5 U		**4.38E-5 J**
PCB-065	mg/kg			< 2.50E-4 U	< 1.18E-4 U	< 2.31E-4 U	< 2.49E-5 U		< 6.15E-5 U
PCB-066/076	mg/kg			**1.38E-2**	**8.01E-2**	**2.56E+0 J**	**8.38E-3**		**2.97E-3**
PCB-067	mg/kg			< 2.50E-4 U	**7.27E-4**	**1.79E-2**	**6.09E-5**		**3.61E-5 J**
PCB-068	mg/kg			< 2.50E-4 U	**6.87E-4**	**5.67E-2**	**1.12E-4**		**1.22E-4**
PCB-073	mg/kg			< 2.50E-4 U	< 1.18E-4 U	< 2.31E-4 U	**3.69E-5**		**2.57E-5 J**
PCB-074	mg/kg			**2.64E-3**	**1.65E-2**	**9.67E-1 J**	**9.43E-4**		**6.86E-4**
PCB-077	mg/kg			**1.86E-3**	**1.17E-2**	**6.09E-2**	**3.07E-3**		**1.60E-3**
PCB-078	mg/kg			< 2.50E-4 U	< 1.18E-4 U	< 2.31E-4 U	< 2.49E-5 U		**4.99E-4**
PCB-079	mg/kg			**2.64E-3**	**8.32E-3**	**8.30E-2**	**3.81E-3**		**5.95E-3**

Table I.6.B.2. Individual PCB Congeners and Co-Located Aroclors in Vadose Soil

South Park Marina Site, Seattle, Washington

			Location	B-01	B-03	B-04	MW-04	MW-04D	
			Sample Date	11/17/17	11/17/17	11/17/17	03/04/21	09/22/22	09/22/22
			Sample	B-01-2-3	B-03-0-1	B-04-5-6	MW-4-0-1	MW-04D-0-1	MW-04D-0-1-TIG
Analyte	Unit	Proposed RI CUL	Basis of CUL						
PCB-080	mg/kg			< 2.50E-4 U	< 1.18E-4 U	< 2.31E-4 U	< 2.49E-5 U		< 6.15E-5 U
PCB-081	mg/kg			**7.79E-4**	**3.00E-3**	**2.28E-2**	**1.21E-3**		**5.27E-4**
PCB-082	mg/kg			**4.91E-2**	**1.41E-1**	**7.46E-1**	**2.68E-2**		**3.78E-2**
PCB-083	mg/kg			< 2.50E-4 U	< 1.18E-4 U	< 2.31E-4 U	< 2.49E-5 U		< 6.15E-5 U
PCB-084/092	mg/kg			**1.90E-1**	**4.85E-1**	**3.21E+0 J**	**8.70E-2**		**1.28E-1**
PCB-085/116	mg/kg			**5.30E-2**	**1.85E-1**	**1.12E+0**	**5.94E-2**		**1.01E-1**
PCB-086	mg/kg			< 2.50E-4 U	< 1.18E-4 U	< 2.31E-4 U	**3.24E-4**		**1.81E-4**
PCB-087/117/125	mg/kg			**1.34E-1**	**4.55E-1**	**2.46E+0**	**9.21E-2**		**1.26E-1**
PCB-088/091	mg/kg			**5.63E-2**	**1.45E-1**	**9.86E-1**	**3.75E-2**		**8.05E-2**
PCB-089	mg/kg			**2.66E-3**	**7.08E-3**	**5.54E-2**	**8.39E-4**		**6.70E-4**
PCB-090/101	mg/kg			**3.76E-1**	**1.11E+0 J**	**7.98E+0 J**	**3.14E-1**		**4.05E-1**
PCB-093	mg/kg			< 2.50E-4 U	< 1.18E-4 U	< 2.31E-4 U	**2.95E-3**		< 6.15E-5 U
PCB-094	mg/kg			< 2.50E-4 U	**3.17E-3**	**2.44E-2**	**4.37E-4**		**5.03E-4**
PCB-095/098/102	mg/kg			**4.02E-1**	**9.30E-1**	**5.29E+0 J**	**1.39E-1**		**2.64E-1**
PCB-096	mg/kg			**2.07E-3**	**5.50E-3**	**3.90E-2**	**4.60E-4**		**7.94E-4**
PCB-097	mg/kg			**1.08E-1**	**3.37E-1**	**2.56E+0 J**	**5.81E-2**		**8.03E-2**
PCB-099	mg/kg			**1.35E-1**	**4.77E-1 J**	**4.57E+0 J**	**1.58E-1**		**2.06E-1**
PCB-100	mg/kg			**5.87E-4**	**1.80E-3**	**3.52E-2**	**4.37E-4**		**7.89E-4**
PCB-103	mg/kg			**1.62E-3**	**4.60E-3**	**7.16E-2**	**8.40E-4**		**1.36E-3**
PCB-104	mg/kg			< 2.50E-4 U	< 1.18E-4 U	**1.59E-4 J**	< 2.49E-5 U		< 6.15E-5 U
PCB-105	mg/kg			**6.28E-2**	**2.13E-1**	**2.31E+0 J**	**5.79E-2**		**5.59E-2**
PCB-106/118	mg/kg			**2.04E-1**	**6.91E-1**	**7.43E+0 J**	**1.80E-1**		**1.86E-1**
PCB-107/109	mg/kg			**1.14E-2**	**4.18E-2**	**5.80E-1**	**1.17E-2**		**1.36E-2**
PCB-108/112	mg/kg			**1.70E-2**	**4.77E-2**	**3.88E-1**	**6.64E-3**		**7.29E-3**
PCB-110	mg/kg			**4.51E-1**	**1.30E+0 J**	**8.79E+0 J**	**4.27E-1**		**6.61E-1**
PCB-111/115	mg/kg			**2.88E-3**	**1.03E-2**	**1.20E-1**	**3.47E-3**		**2.91E-3**
PCB-113	mg/kg			< 2.50E-4 U	< 1.18E-4 U	< 2.31E-4 U	**3.66E-4**		< 6.15E-5 U
PCB-114	mg/kg			**2.69E-3**	**6.87E-3**	**1.42E-1**	**6.77E-4**		**4.25E-4**
PCB-119	mg/kg			**3.82E-3**	**1.49E-2**	**2.41E-1**	**3.07E-3**		**4.18E-3**
PCB-120	mg/kg			**5.29E-4**	**1.75E-3**	**1.15E-2**	**8.07E-4**		**8.57E-4**
PCB-121	mg/kg			< 2.50E-4 U	< 1.18E-4 U	< 2.31E-4 U	< 2.49E-5 U		< 6.15E-5 U
PCB-122	mg/kg			**4.00E-3**	**1.19E-2**	**5.21E-2**	**4.30E-3**		**7.25E-3**
PCB-123	mg/kg			**4.09E-3**	**1.24E-2**	**6.95E-2**	**5.89E-3**		**9.44E-3**
PCB-124	mg/kg			**1.62E-2**	**3.70E-2**	**2.31E-1**	**1.39E-2**		**2.18E-2**
PCB-126	mg/kg			**1.47E-3**	**3.93E-3**	**1.80E-2**	**2.30E-3**		**3.02E-3**
PCB-127	mg/kg			< 2.50E-4 U	< 1.18E-4 U	< 2.31E-4 U	< 2.49E-5 U		< 6.15E-5 U
PCB-128/162	mg/kg			**9.20E-2**	**2.10E-1**	**1.11E+0**	**9.55E-2**		**1.33E-1**
PCB-129	mg/kg			**2.79E-2**	**6.19E-2**	**2.92E-1**	**2.50E-2**		**3.74E-2**
PCB-130	mg/kg			**3.33E-2**	**7.18E-2**	**3.20E-1**	**3.60E-2**		**5.08E-2**
PCB-131	mg/kg								
PCB-131/133	mg/kg			**1.47E-2**	**3.23E-2**	**1.44E-1**	**1.21E-2**		**1.72E-2**
PCB-132/161	mg/kg			**1.48E-1**	**3.39E-1**	**1.70E+0**	**1.26E-1**		**1.98E-1**
PCB-133/142	mg/kg								
PCB-134/143	mg/kg			**2.96E-2**	**6.47E-2**	**3.18E-1**	**2.33E-2**		**3.59E-2**
PCB-135	mg/kg			**6.09E-2**	**1.39E-1**	**7.30E-1**	**4.22E-2**		**5.07E-2**
PCB-136	mg/kg			**6.62E-2**	**1.36E-1**	**7.20E-1**	**4.25E-2**		**6.44E-2**
PCB-137	mg/kg			**2.82E-2**	**7.40E-2**	**3.86E-1**	**3.01E-2**		**5.13E-2**
PCB-138/163/164	mg/kg			**4.85E-1**	**1.12E+0**	**5.43E+0 J**	**5.01E-1**		**6.67E-1**
PCB-139/149	mg/kg			**3.60E-1**	**8.12E-1**	**4.41E+0 J**	**3.15E-1**		**3.49E-1**
PCB-140	mg/kg			**1.82E-3**	**4.92E-3**	**4.08E-2**	**2.23E-3**		**2.50E-3**
PCB-141	mg/kg			**8.75E-2**	**1.96E-1**	**6.77E-1**	**9.78E-2**		**1.16E-1**
PCB-142	mg/kg			**1.10E-4 J**	**2.28E-4**	**6.51E-4**	< 2.49E-5 U		**1.77E-4**
PCB-144	mg/kg			**2.08E-2**	**4.45E-2**	**1.89E-1**	**2.03E-2**		**2.27E-2**
PCB-145	mg/kg			**1.75E-4 J**	**4.42E-4**	**3.29E-3**	< 2.49E-5 U		**1.92E-4**
PCB-146/165	mg/kg			**5.79E-2**	**1.25E-1**	**6.09E-1**	**5.89E-2**		**7.36E-2**
PCB-147	mg/kg			**1.06E-2**	**2.50E-2**	**1.64E-1**	**7.84E-3**		**1.23E-2**
PCB-148	mg/kg			< 2.50E-4 U	**2.46E-4**	**3.60E-3**	**2.51E-4**		**1.94E-4**
PCB-150	mg/kg			**4.57E-4**	**9.73E-4**	**6.01E-3**	**4.31E-4**		**4.81E-4**
PCB-151	mg/kg			**9.72E-2**	**1.89E-1**	**8.39E-1**	**8.15E-2**		**8.20E-2**
PCB-152	mg/kg			**4.42E-4**	**1.04E-3**	**7.12E-3**	**3.02E-4**		**4.89E-4**
PCB-153	mg/kg			**3.93E-1**	**8.52E-1 J**	**4.03E+0 J**	**4.42E-1**		**4.93E-1**
PCB-154	mg/kg			**3.12E-3**	**8.07E-3**	**6.99E-2**	**3.66E-3**		**4.29E-3**
PCB-155	mg/kg			< 2.50E-4 U	< 1.18E-4 U	< 2.31E-4 U	< 2.49E-5 U		< 6.15E-5 U
PCB-156	mg/kg			**3.05E-2**	**8.94E-2**	**6.70E-1**	**3.65E-2**		**3.91E-2**
PCB-157	mg/kg			**1.20E-2**	**2.85E-2**	**1.52E-1**	**1.47E-2**		**1.94E-2**
PCB-158/160	mg/kg			**5.44E-2**	**1.31E-1**	**5.96E-1**	**6.39E-2**		**9.25E-2**
PCB-159	mg/kg			< 2.50E-4 U	< 1.18E-4 U	< 2.31E-4 U	< 2.49E-5 U		< 6.15E-5 U
PCB-166	mg/kg			**1.91E-3**	**4.82E-3**	**2.50E-2**	**1.79E-3**		**2.30E-3**
PCB-167	mg/kg			**2.02E-2**	**4.68E-2**	**2.32E-1**	**2.33E-2**		**3.28E-2**
PCB-168	mg/kg			**3.51E-4**	**8.56E-4**	**5.31E-3**	**6.95E-4**		**7.16E-4**
PCB-169	mg/kg			< 2.50E-4 U	< 1.18E-4 U	< 2.31E-4 U	< 2.49E-5 U		**4.07E-5 J**
PCB-170	mg/kg			**8.93E-2**	**1.65E-1**	**5.55E-1**	**9.67E-2**		**8.75E-2**
PCB-171	mg/kg			**2.34E-2**	**4.56E-2**	**1.53E-1**	**3.33E-2**		**2.40E-2**

Table I.6.B.2. Individual PCB Congeners and Co-Located Aroclors in Vadose Soil

South Park Marina Site, Seattle, Washington

				Location	B-01	B-03	B-04	MW-04	MW-04D	
				Sample Date	11/17/17	11/17/17	11/17/17	03/04/21	09/22/22	09/22/22
				Sample	B-01-2-3	B-03-0-1	B-04-5-6	MW-4-0-1	MW-04D-0-1	MW-04D-0-1-TIG
Analyte	Unit	Proposed RI CUL	Basis of CUL							
PCB-172	mg/kg				**1.57E-2**	**2.59E-2**	**8.14E-2**	**2.03E-2**		**1.24E-2**
PCB-173	mg/kg				**2.36E-3**	**4.56E-3**	**1.53E-2**	**2.44E-3**		**2.02E-3**
PCB-174	mg/kg				**1.13E-1**	**1.62E-1**	**4.90E-1**	**1.37E-1**		**7.86E-2**
PCB-175	mg/kg				**4.64E-3**	**5.99E-3**	**1.96E-2**	**6.62E-3**		**3.13E-3**
PCB-176	mg/kg				**1.40E-2**	**1.97E-2**	**6.73E-2**	**1.74E-2**		**1.07E-2**
PCB-177	mg/kg				**5.74E-2**	**9.25E-2**	**2.87E-1**	**6.78E-2**		**4.30E-2**
PCB-178	mg/kg				**2.11E-2**	**2.39E-2**	**7.89E-2**	**2.75E-2**		**1.29E-2**
PCB-179	mg/kg				**5.21E-2**	**6.17E-2**	**1.90E-1**	**5.76E-2**		**3.24E-2**
PCB-180	mg/kg				**2.36E-1**	**3.55E-1**	**1.04E+0 J**	**3.34E-1**		**1.81E-1**
PCB-181	mg/kg				< 2.50E-4 U	< 1.18E-4 U	< 2.31E-4 U	**6.37E-4**		**9.35E-4**
PCB-182/187	mg/kg				**1.44E-1**	**1.59E-1**	**5.16E-1**	**1.81E-1**		**8.27E-2**
PCB-183	mg/kg				**5.88E-2**	**8.01E-2**	**2.73E-1**	**9.29E-2**		**4.76E-2**
PCB-184	mg/kg				< 2.50E-4 U	**1.03E-4 J**	**6.51E-4**	**1.55E-4**		**5.97E-5 J**
PCB-185	mg/kg				**1.39E-2**	**1.73E-2**	**4.50E-2**	**2.06E-2**		**9.02E-3**
PCB-186	mg/kg				< 2.50E-4 U	**4.81E-5 J**	**1.99E-4 J**	< 2.49E-5 U		**3.03E-5 J**
PCB-188	mg/kg				< 2.50E-4 U	**1.06E-4 J**	**4.74E-4**	**2.89E-4**		**8.88E-5**
PCB-189	mg/kg				**3.27E-3**	**6.95E-3**	**2.52E-2**	**4.52E-3**		**3.18E-3**
PCB-190	mg/kg				**1.71E-2**	**3.05E-2**	**9.37E-2**	**2.41E-2**		**1.78E-2**
PCB-191	mg/kg				**3.44E-3**	**6.59E-3**	**2.09E-2**	**5.33E-3**		**3.44E-3**
PCB-192	mg/kg				< 2.50E-4 U	< 1.18E-4 U	< 2.31E-4 U	< 2.49E-5 U		< 6.15E-5 U
PCB-193	mg/kg				**9.83E-3**	**1.50E-2**	**4.07E-2**	**1.51E-2**		**8.45E-3**
PCB-194	mg/kg				**5.66E-2**	**7.04E-2**	**1.60E-1**	**9.69E-2**		**4.87E-2**
PCB-195	mg/kg				**2.34E-2**	**2.98E-2**	**7.02E-2**	**3.72E-2**		**1.73E-2**
PCB-196/203	mg/kg				**8.38E-2**	**1.02E-1**	**2.52E-1**	**1.45E-1**		**5.77E-2**
PCB-197	mg/kg				**2.56E-3**	**3.17E-3**	**7.94E-3**	**5.21E-3**		**1.84E-3**
PCB-198	mg/kg				**3.14E-3**	**4.05E-3**	**1.95E-2**	**6.25E-3**		**2.18E-3**
PCB-199	mg/kg				**8.33E-2**	**8.62E-2**	**2.05E-1**	**1.40E-1**		**4.82E-2**
PCB-200	mg/kg				**1.01E-2**	**1.07E-2**	**2.70E-2**	**1.77E-2**		**6.84E-3**
PCB-201	mg/kg				**1.02E-2**	**1.11E-2**	**2.75E-2**	**2.07E-2**		**7.53E-3**
PCB-202	mg/kg				**1.55E-2**	**1.56E-2**	**3.78E-2**	**2.56E-2**		**9.41E-3**
PCB-204	mg/kg				< 2.50E-4 U	**2.30E-5 J**	**1.27E-4 J**	< 2.49E-5 U		< 6.15E-5 U
PCB-205	mg/kg				**2.35E-3**	**3.42E-3**	**8.07E-3**	**4.70E-3**		**2.31E-3**
PCB-206	mg/kg				**1.90E-2**	**3.67E-2**	**7.56E-2**	**6.71E-2**		**3.11E-2**
PCB-207	mg/kg				**2.68E-3**	**4.26E-3**	**9.54E-3**	**1.11E-2**		**4.10E-3**
PCB-208	mg/kg				**3.82E-3**	**7.37E-3**	**1.48E-2**	**1.67E-2**		**6.55E-3**
PCB-209	mg/kg				**1.22E-3**	**5.97E-3**	**9.59E-3**	**1.07E-2**		**4.86E-3**
Total Decachlorobiphenyls	mg/kg				**1.22E-3**	**5.97E-3**	**9.59E-3**	**1.07E-2**		**4.86E-3**
Total Dichlorobiphenyls	mg/kg				**3.05E-3**	**5.71E-2**	**2.58E+0**	**3.49E-3**		**2.79E-3**
Total Heptachlorobiphenyls	mg/kg				**8.79E-1**	**1.28E+0**	**3.99E+0**	**1.14E+0**		**6.60E-1**
Total Hexachlorobiphenyls	mg/kg				**2.14E+0**	**4.81E+0**	**2.39E+1**	**2.11E+0**		**2.65E+0**
Total Monochlorobiphenyls	mg/kg				**3.00E-3**	**6.57E-2**	**1.69E+0**	**1.58E-3**		**1.14E-3**
Total Nonachlorobiphenyls	mg/kg				**2.55E-2**	**4.83E-2**	**1.00E-1**	**9.49E-2**		**4.18E-2**
Total Octachlorobiphenyls	mg/kg				**2.91E-1**	**3.37E-1**	**8.16E-1**	**4.99E-1**		**2.02E-1**
Total Pentachlorobiphenyls	mg/kg				**2.29E+0**	**6.68E+0**	**4.95E+1**	**1.70E+0**		**2.41E+0**
Total Tetrachlorobiphenyls	mg/kg				**2.64E-1**	**1.05E+0**	**1.95E+1**	**9.11E-2 J**		**7.21E-2**
Total Trichlorobiphenyls	mg/kg				**7.82E-3**	**1.05E-1**	**5.06E+0**	**5.01E-3**		**3.63E-3**
Total PCB Congeners (ND = 0)	mg/kg	1.8E-4	SL-3, PQL Adj.		**5.91E+0 J**	**1.44E+1 J**	**1.07E+2 J**	**5.65E+0 J**		**6.05E+0 J**
Total PCB TEQ (ND = 0)	mg/kg	7.0E-7	SL-3, PQL Adj.		**1.51E-4**	**4.07E-4**	**1.92E-3 J**	**2.35E-4**		**3.08E-4 J**

Notes:

Bold = detected

Gray Shaded = Nondetect result has an RDL that exceeds the Proposed RI CUL

Blue Shaded = Detected result exceeded the Proposed RI CUL

Proposed RI CUL = Proposed Remedial Investigation Cleanup Level

mg/kg = milligrams per kilogram

U = Analyte not detected at or above the RDL shown

J = Result value estimated

UJ = Analyte not detected, and the RDL shown is an estimate

(ND = 0) = calculated using zero for nondetected components

TEQ = Toxic Equivalency

A = One or more of the nine common Aroclor groups (1016, 1221, 1232, 1242, 1248, 1254, 1260, 1262, and 1268) were not reported, and the Total PCB Aroclors (ND = 0) sum assumes the missing components were nondetect.

Total PCB Aroclors (ND = 0) are the sum of Aroclors available, with nondetects = 0, unless all Aroclors were not detected, in which case the Total PCB Aroclors concentration is shown as nondetect at the maximum RDL for any individual Aroclor.

RDL = Reported Detection Limit

Table I.6.B.2. Individual PCB Congeners and Co-Located Aroclors in Vadose Soil

South Park Marina Site, Seattle, Washington

			Location	MW-08	MW-10	MW-11D	MW-18D	MW-18D	SB-26
			Sample Date	03/09/21	03/08/21	09/15/22	09/12/22	09/12/22	03/04/21
			Sample	MW-8-0-1	MW-10-0-1	MW-11D-0-1	MW-18D-0-1	MW-18D-0-1-TIG	SB-26-0-1
Analyte	Unit	Proposed RI CUL	Basis of CUL						
Polychlorinated Biphenyl Aroclors									
Aroclor 1016	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U		< 1.39 U
Aroclor 1221	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U		< 1.39 U
Aroclor 1232	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U		< 1.39 U
Aroclor 1242	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U		< 1.39 U
Aroclor 1248	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U		< 1.39 UJ
Aroclor 1254	mg/kg			**0.021**	**0.0129**	**0.005**	< 0.004 U		**36.7**
Aroclor 1260	mg/kg			**0.0591**	**0.0398**	**0.036**	< 0.004 U		**6.77 J**
Aroclor 1262	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U		< 1.39 U
Aroclor 1268	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U		< 1.39 U
Total PCB Aroclors (ND = 0)	mg/kg	0.036	SL-3, PQL Adj.	**0.0801**	**0.0527**	**0.041**	< 0.004 U		**43.5 J**
Polychlorinated Biphenyl Congeners									
PCB-001	mg/kg			**8.91E-5**	**5.81E-6**	**3.06E-6**		< 2.50E-6 U	**1.70E-2**
PCB-002	mg/kg			**2.29E-5**	**6.76E-6**	**9.05E-7 J**		**8.05E-7 J**	**3.23E-3**
PCB-003	mg/kg			**4.22E-5**	**6.84E-6**	**1.94E-6 J**		**8.32E-7 J**	**2.34E-2**
PCB-004/010	mg/kg			**1.69E-4**	< 9.95E-6 U	**1.11E-5**		< 5.00E-6 U	**7.35E-2**
PCB-005/008	mg/kg			**2.78E-4**	< 9.95E-6 U	**2.81E-5**		< 5.00E-6 U	**6.28E-2**
PCB-006	mg/kg			**6.20E-5**	< 4.97E-6 U	**5.21E-6**		< 2.50E-6 U	**1.52E-2**
PCB-007/009	mg/kg			**3.81E-5**	< 9.95E-6 U	< 1.10E-6 U		< 5.00E-6 U	**8.16E-3**
PCB-011	mg/kg			**1.48E-5**	< 4.97E-6 U	**1.76E-5**		< 2.50E-6 U	**1.54E-3**
PCB-012/013	mg/kg			**1.98E-5**	< 9.95E-6 U	**4.33E-6 J**		< 5.00E-6 U	**2.22E-2**
PCB-014	mg/kg			< 4.99E-6 U	< 4.97E-6 U	< 9.64E-7 U		< 2.50E-6 U	< 2.51E-5 U
PCB-015	mg/kg			**1.01E-4**	< 4.97E-6 U	**3.81E-5**		< 2.50E-6 U	**2.45E-1**
PCB-016/032	mg/kg			**1.92E-4**	< 9.95E-6 U	**2.60E-5**		< 5.00E-6 U	**2.20E-1**
PCB-017	mg/kg			**1.32E-4**	< 4.97E-6 U	**1.56E-5**		< 2.50E-6 U	**1.10E-1**
PCB-018	mg/kg			**3.37E-4**	**3.36E-6 J**	**4.03E-5**		< 2.50E-6 U	**2.61E-1**
PCB-019	mg/kg			**4.05E-5**	< 4.97E-6 U	**4.74E-6**		< 2.50E-6 U	**5.82E-2**
PCB-020/021/033	mg/kg			**2.75E-4**	< 1.49E-5 U	**4.71E-5**		< 7.49E-6 U	**1.07E-1**
PCB-022	mg/kg			**1.42E-4**	< 4.97E-6 U	**3.05E-5**		< 2.50E-6 U	**8.46E-2**
PCB-023	mg/kg			< 4.99E-6 U	< 4.97E-6 U	< 3.84E-7 U		< 2.50E-6 U	< 2.51E-5 U
PCB-024/027	mg/kg			**2.36E-5**	< 9.95E-6 U	**3.35E-6 J**		< 5.00E-6 U	**2.86E-2**
PCB-025	mg/kg			**2.81E-5**	< 4.97E-6 U	**4.48E-6**		< 2.50E-6 U	**2.36E-2**
PCB-026	mg/kg			**6.31E-5**	< 4.97E-6 U	**1.18E-5**		< 2.50E-6 U	**6.07E-2**
PCB-028	mg/kg			**3.12E-4**	**7.72E-6**	**7.34E-5**		< 2.50E-6 U	**3.26E-1**
PCB-029	mg/kg			**4.08E-6 J**	< 4.97E-6 U	< 3.98E-7 U		< 2.50E-6 U	**1.04E-3**
PCB-030	mg/kg			< 4.99E-6 U	< 4.97E-6 U	< 2.65E-7 U		< 2.50E-6 U	**1.95E-4**
PCB-031	mg/kg			**3.35E-4**	< 4.97E-6 U	**7.53E-5**		< 2.50E-6 U	**2.27E-1**
PCB-034	mg/kg			< 4.99E-6 U	< 4.97E-6 U	< 3.91E-7 U		< 2.50E-6 U	**8.94E-4**
PCB-035	mg/kg			**9.00E-6**	< 4.97E-6 U	**3.25E-6**		< 2.50E-6 U	**4.91E-3**
PCB-036	mg/kg			< 4.99E-6 U	< 4.97E-6 U	**1.21E-6 J**		< 2.50E-6 U	**8.75E-5**
PCB-037	mg/kg			**1.42E-4**	< 4.97E-6 U	**3.25E-5**		< 2.50E-6 U	**1.33E-1**
PCB-038	mg/kg			**3.47E-6 J**	< 4.97E-6 U	**5.86E-7**		**1.04E-5**	**4.04E-3**
PCB-039	mg/kg			< 4.99E-6 U	< 4.97E-6 U	< 3.78E-7 U		< 2.50E-6 U	< 2.51E-5 U
PCB-040	mg/kg			**1.21E-4**	< 4.97E-6 U	**1.63E-5**		< 2.50E-6 U	**1.28E-1**
PCB-041/064/071/072	mg/kg			**5.04E-4**	**2.14E-5**	**1.03E-4**		**2.58E-6 J**	**4.45E-1**
PCB-042	mg/kg								
PCB-042/059	mg/kg			**1.40E-4**	< 9.95E-6 U	**2.59E-5**		< 5.00E-6 U	**1.85E-1**
PCB-043/049	mg/kg			**4.18E-4**	**2.16E-5**	**6.44E-5**		**2.85E-6 J**	**6.72E-1**
PCB-044	mg/kg			**8.25E-4**	**3.16E-5**	**9.67E-5**		< 2.50E-6 U	**9.96E-1**
PCB-045	mg/kg			**6.79E-5**	< 4.97E-6 U	**1.35E-5**		< 2.50E-6 U	**1.05E-1**
PCB-046	mg/kg			**3.23E-5**	< 4.97E-6 U	**5.43E-6**		< 2.50E-6 U	**4.28E-2**
PCB-047	mg/kg			**1.07E-4**	**5.67E-6**	**2.04E-5**		< 2.50E-6 U	**1.66E-1**
PCB-048/075	mg/kg			**7.77E-5**	**2.27E-6 J**	**1.27E-5**		< 5.00E-6 U	**6.44E-2**
PCB-050	mg/kg			< 4.99E-6 U	< 4.97E-6 U	< 5.56E-7 U		< 2.50E-6 U	**1.48E-3**
PCB-051	mg/kg			**1.75E-5**	< 4.97E-6 U	**3.47E-6**		< 2.50E-6 U	**2.66E-2**
PCB-052/069	mg/kg			**1.24E-3**	**6.86E-5**	**1.63E-4**		**4.57E-6 J**	**2.00E+0**
PCB-053	mg/kg			**7.22E-5**	< 4.97E-6 U	**1.42E-5**		< 2.50E-6 U	**1.12E-1**
PCB-054	mg/kg			**1.02E-6 J**	< 4.97E-6 U	**6.39E-7**		< 2.50E-6 U	**1.40E-3**
PCB-055	mg/kg			**1.04E-5**	< 4.97E-6 U	**4.22E-6**		< 2.50E-6 U	**5.53E-3**
PCB-056/060	mg/kg			**5.03E-4**	**2.32E-5**	**1.01E-4**		**1.39E-6 J**	**1.95E-1**
PCB-057	mg/kg			< 4.99E-6 U	< 4.97E-6 U	**4.53E-7 J**		< 2.50E-6 U	**1.69E-3**
PCB-058	mg/kg			< 4.99E-6 U	< 4.97E-6 U	**2.30E-7**		< 2.50E-6 U	**2.11E-3**
PCB-061/070	mg/kg			**1.57E-3**	**1.20E-4**	**2.80E-4**		**3.84E-6 J**	**8.60E-1**
PCB-062	mg/kg			< 4.99E-6 U	< 4.97E-6 U	< 4.64E-7 U		< 2.50E-6 U	**1.71E-4**
PCB-063	mg/kg			**2.39E-5**	< 4.97E-6 U	**5.58E-6**		< 2.50E-6 U	**7.33E-3**
PCB-065	mg/kg			< 4.99E-6 U	< 4.97E-6 U	< 4.15E-7 U		< 2.50E-6 U	**2.98E-4**
PCB-066/076	mg/kg			**6.43E-4**	**3.40E-5**	**1.35E-4**		**1.22E-6 J**	**5.07E-1**
PCB-067	mg/kg			**1.56E-5**	< 4.97E-6 U	**1.73E-6 J**		< 2.50E-6 U	**9.66E-3**
PCB-068	mg/kg			< 4.99E-6 U	< 4.97E-6 U	**5.04E-7**		< 2.50E-6 U	**4.07E-3**
PCB-073	mg/kg			< 4.99E-6 U	< 4.97E-6 U	**2.82E-7 J**		< 2.50E-6 U	**1.26E-3**
PCB-074	mg/kg			**3.67E-4**	**1.92E-5**	**6.27E-5**		< 2.50E-6 U	**1.16E-1**
PCB-077	mg/kg			**9.07E-5**	**8.43E-6**	**1.51E-5**		< 2.50E-6 U	**7.53E-2**
PCB-078	mg/kg			< 4.99E-6 U	< 4.97E-6 U	< 4.05E-7 U		< 2.50E-6 U	**6.75E-4**
PCB-079	mg/kg			**3.37E-5**	**6.27E-6**	**6.94E-6**		< 2.50E-6 U	**3.84E-2**

Table I.6.B.2. Individual PCB Congeners and Co-Located Aroclors in Vadose Soil

South Park Marina Site, Seattle, Washington

			Location	MW-08	MW-10	MW-11D	MW-18D	MW-18D	SB-26
			Sample Date	03/09/21	03/08/21	09/15/22	09/12/22	09/12/22	03/04/21
			Sample	MW-8-0-1	MW-10-0-1	MW-11D-0-1	MW-18D-0-1	MW-18D-0-1-TIG	SB-26-0-1
Analyte	Unit	Proposed RI CUL	Basis of CUL						
PCB-080	mg/kg			< 4.99E-6 U	< 4.97E-6 U	< 3.59E-7 U		< 2.50E-6 U	< 2.51E-5 U
PCB-081	mg/kg			**3.31E-5**	< 4.97E-6 U	**2.25E-6 J**		< 2.50E-6 U	**3.16E-2**
PCB-082	mg/kg			**6.45E-4**	**5.00E-5**	**9.86E-5**		**3.79E-6**	**5.37E-1**
PCB-083	mg/kg			< 4.99E-6 U	< 4.97E-6 U	< 3.20E-7 U		< 2.50E-6 U	< 2.51E-5 U
PCB-084/092	mg/kg			**2.74E-3**	**1.54E-4**	**2.43E-4**		**1.19E-5**	**1.98E+0**
PCB-085/116	mg/kg			**7.92E-4**	**1.19E-4**	**1.97E-4**		< 5.00E-6 U	**7.46E-1**
PCB-086	mg/kg			**7.57E-6**	< 4.97E-6 U	**2.80E-6**		< 2.50E-6 U	**3.85E-3**
PCB-087/117/125	mg/kg			**1.99E-3**	**1.73E-4**	**2.78E-4**		**1.45E-5**	**1.86E+0**
PCB-088/091	mg/kg			**1.07E-3**	**3.68E-5**	**8.62E-5**		**6.97E-6**	**5.48E-1**
PCB-089	mg/kg			**4.37E-5**	< 4.97E-6 U	**4.82E-6**		< 2.50E-6 U	**3.20E-2**
PCB-090/101	mg/kg			**5.44E-3**	**4.19E-4**	**7.37E-4**		**4.36E-5**	**5.22E+0**
PCB-093	mg/kg			**7.48E-5**	< 4.97E-6 U	**7.69E-6**		< 2.50E-6 U	**8.20E-2**
PCB-094	mg/kg			**2.23E-5**	< 4.97E-6 U	**2.88E-6**		< 2.50E-6 U	**1.22E-2**
PCB-095/098/102	mg/kg			**5.39E-3**	**1.88E-4**	**3.95E-4**		**2.52E-5**	**3.27E+0**
PCB-096	mg/kg			**3.32E-5**	< 4.97E-6 U	**3.24E-6**		< 2.50E-6 U	**1.83E-2**
PCB-097	mg/kg			**1.37E-3**	**8.77E-5**	**2.16E-4**		**8.08E-6**	**1.39E+0**
PCB-099	mg/kg			**1.73E-3**	**1.93E-4**	**3.25E-4**		**2.19E-5**	**1.87E+0**
PCB-100	mg/kg			**1.06E-5**	< 4.97E-6 U	**7.72E-7**		< 2.50E-6 U	**7.13E-3**
PCB-103	mg/kg			**2.05E-5**	< 4.97E-6 U	**2.25E-6 J**		< 2.50E-6 U	**1.91E-2**
PCB-104	mg/kg			< 4.99E-6 U	< 4.97E-6 U	< 3.53E-7 U		< 2.50E-6 U	**8.37E-5**
PCB-105	mg/kg			**2.14E-3**	**4.33E-4**	**5.22E-4**		< 2.50E-6 U	**8.15E-1**
PCB-106/118	mg/kg			**4.48E-3**	**8.19E-4**	**1.06E-3**		**2.29E-5**	**2.97E+0**
PCB-107/109	mg/kg			**2.68E-4**	**7.32E-5**	**6.59E-5**		**1.78E-6 J**	**1.47E-1**
PCB-108/112	mg/kg			**2.62E-4**	< 9.95E-6 U	**2.42E-5**		< 5.00E-6 U	**1.57E-1**
PCB-110	mg/kg			**1.09E-2**	**9.19E-4**	**1.64E-3**		**6.08E-5**	**5.37E+0**
PCB-111/115	mg/kg			**8.86E-5**	**1.29E-5**	**2.03E-5**		**5.78E-6**	**4.51E-2**
PCB-113	mg/kg			**2.63E-5**	< 4.97E-6 U	**1.87E-6 J**		< 2.50E-6 U	**3.35E-3**
PCB-114	mg/kg			**1.31E-4**	**2.14E-5**	**2.54E-5**		< 2.50E-6 U	**2.72E-2**
PCB-119	mg/kg			**8.37E-5**	**1.12E-5**	**1.58E-5**		**9.75E-7 J**	**5.35E-2**
PCB-120	mg/kg			**3.83E-5**	< 4.97E-6 U	**5.14E-6**		< 2.50E-6 U	**6.29E-3**
PCB-121	mg/kg			< 4.99E-6 U	< 4.97E-6 U	**3.27E-6**		< 2.50E-6 U	< 2.51E-5 U
PCB-122	mg/kg			**6.86E-5**	**1.77E-5**	**1.63E-5**		< 2.50E-6 U	**4.30E-2**
PCB-123	mg/kg			**6.59E-5**	**2.54E-5**	**2.06E-5**		< 2.50E-6 U	**5.37E-2**
PCB-124	mg/kg			**3.09E-4**	**6.52E-5**	**6.62E-5**		< 2.50E-6 U	**1.76E-1**
PCB-126	mg/kg			**7.17E-5**	**1.66E-5**	**1.24E-5**		< 2.50E-6 U	**1.81E-2**
PCB-127	mg/kg			< 4.99E-6 U	< 4.97E-6 U	< 1.10E-6 U		< 2.50E-6 U	< 2.51E-5 U
PCB-128/162	mg/kg			**3.02E-3**	**6.38E-4**	**6.01E-4**		**9.75E-6**	**8.94E-1**
PCB-129	mg/kg			**7.37E-4**	**1.05E-4**	**1.18E-4**		< 2.50E-6 U	**2.40E-1**
PCB-130	mg/kg			**1.32E-3**	**2.22E-4**	**2.28E-4**		**5.99E-6**	**3.54E-1**
PCB-131	mg/kg								
PCB-131/133	mg/kg			**4.85E-4**	**6.59E-5**	**8.22E-5**		**2.14E-6 J**	**1.26E-1**
PCB-132/161	mg/kg			**5.82E-3**	**5.12E-4**	**9.00E-4**		**1.35E-5**	**1.35E+0**
PCB-133/142	mg/kg								
PCB-134/143	mg/kg			**1.11E-3**	**9.62E-5**	**1.29E-4**		< 5.00E-6 U	**2.68E-1**
PCB-135	mg/kg			**2.34E-3**	**2.40E-4**	**4.86E-4**		**6.33E-6**	**5.02E-1**
PCB-136	mg/kg			**2.75E-3**	**1.85E-4**	**3.59E-4**		**7.63E-6**	**6.49E-1**
PCB-137	mg/kg			**7.72E-4**	**1.63E-4**	**1.15E-4**		**3.97E-6**	**2.67E-1**
PCB-138/163/164	mg/kg			**1.78E-2**	**4.11E-3**	**6.98E-3**		**7.15E-5**	**4.74E+0**
PCB-139/149	mg/kg			**1.58E-2**	**1.36E-3**	**4.01E-3**		**4.06E-5**	**3.38E+0**
PCB-140	mg/kg			**7.40E-5**	**1.70E-5**	**1.85E-5**		< 2.50E-6 U	**2.11E-2**
PCB-141	mg/kg			**3.82E-3**	**5.68E-4**	**1.03E-3**		**1.64E-5**	**9.96E-1**
PCB-142	mg/kg			< 4.99E-6 U	< 4.97E-6 U	< 1.71E-6 U		< 2.50E-6 U	**8.00E-4**
PCB-144	mg/kg			**8.63E-4**	**5.20E-5**	**9.43E-5**		< 2.50E-6 U	**2.22E-1**
PCB-145	mg/kg			**3.68E-6 J**	< 4.97E-6 U	**6.90E-7**		< 2.50E-6 U	**1.24E-3**
PCB-146/165	mg/kg			**2.57E-3**	**4.75E-4**	**8.76E-4**		< 5.00E-6 U	**5.14E-1**
PCB-147	mg/kg			**2.60E-4**	**4.54E-5**	**4.00E-5**		< 2.50E-6 U	**7.19E-2**
PCB-148	mg/kg			**1.01E-5**	< 4.97E-6 U	**7.15E-6**		< 2.50E-6 U	**1.66E-3**
PCB-150	mg/kg			**1.97E-5**	< 4.97E-6 U	**3.61E-6**		< 2.50E-6 U	**3.01E-3**
PCB-151	mg/kg			**4.05E-3**	**4.94E-4**	**9.85E-4**		**9.99E-6**	**9.25E-1**
PCB-152	mg/kg			**1.20E-5**	< 4.97E-6 U	**2.15E-6 J**		< 2.50E-6 U	**2.91E-3**
PCB-153	mg/kg			**1.58E-2**	**2.99E-3**	**5.89E-3**		**7.40E-5**	**4.02E+0**
PCB-154	mg/kg			**1.07E-4**	**1.01E-5**	**1.76E-5**		< 2.50E-6 U	**2.75E-2**
PCB-155	mg/kg			< 4.99E-6 U	< 4.97E-6 U	< 2.86E-7 U		< 2.50E-6 U	**2.32E-5 J**
PCB-156	mg/kg			**8.95E-4**	**3.04E-4**	**3.46E-4**		**4.99E-6**	**4.07E-1**
PCB-157	mg/kg			**3.67E-4**	< 4.97E-6 U	**8.26E-5**		< 2.50E-6 U	**1.24E-1**
PCB-158/160	mg/kg			**2.02E-3**	**4.55E-4**	**6.34E-4**		**8.45E-6**	**5.78E-1**
PCB-159	mg/kg			< 4.99E-6 U	< 4.97E-6 U	< 1.02E-6 U		< 2.50E-6 U	< 2.51E-5 U
PCB-166	mg/kg			**3.86E-5**	**1.11E-5**	**5.04E-6**		< 2.50E-6 U	**1.55E-2**
PCB-167	mg/kg			**6.82E-4**	**1.58E-4**	**2.01E-4**		**4.89E-6**	**2.01E-1**
PCB-168	mg/kg			< 4.99E-6 U	< 4.97E-6 U	< 1.14E-6 U		< 2.50E-6 U	**7.01E-3**
PCB-169	mg/kg			**8.09E-6**	< 4.97E-6 U	**1.94E-6**		< 2.50E-6 U	< 2.51E-5 U
PCB-170	mg/kg			**6.44E-3**	**1.64E-3**	**6.86E-3**		**1.60E-5**	**1.00E+0**
PCB-171	mg/kg			**1.90E-3**	**3.72E-4**	**1.37E-3**		**4.15E-6**	**2.55E-1**

Table I.6.B.2. Individual PCB Congeners and Co-Located Aroclors in Vadose Soil

South Park Marina Site, Seattle, Washington

			Location	MW-08	MW-10	MW-11D	MW-18D	MW-18D	SB-26
			Sample Date	03/09/21	03/08/21	09/15/22	09/12/22	09/12/22	03/04/21
			Sample	MW-8-0-1	MW-10-0-1	MW-11D-0-1	MW-18D-0-1	MW-18D-0-1-TIG	SB-26-0-1
Analyte	Unit	Proposed RI CUL	Basis of CUL						
PCB-172	mg/kg			**1.11E-3**	**2.68E-4**	**1.02E-3**		< 2.50E-6 U	**1.34E-1**
PCB-173	mg/kg			**1.43E-4**	**3.11E-5**	**7.54E-5**		< 2.50E-6 U	**2.21E-2**
PCB-174	mg/kg			**8.84E-3**	**1.65E-3**	**6.16E-3**		**1.68E-5**	**9.67E-1**
PCB-175	mg/kg			**2.91E-4**	**5.49E-5**	**1.81E-4**		< 2.50E-6 U	**2.88E-2**
PCB-176	mg/kg			**1.04E-3**	**1.47E-4**	**4.41E-4**		< 2.50E-6 U	**1.27E-1**
PCB-177	mg/kg			**4.77E-3**	**9.53E-4**	**3.40E-3**		**9.47E-6**	**5.41E-1**
PCB-178	mg/kg			**1.59E-3**	**3.60E-4**	**9.84E-4**		**4.08E-6**	**1.67E-1**
PCB-179	mg/kg			**3.85E-3**	**6.64E-4**	**1.80E-3**		**6.43E-6**	**4.15E-1**
PCB-180	mg/kg			**1.67E-2**	**4.03E-3**	**2.05E-2**		**4.75E-5**	**2.03E+0**
PCB-181	mg/kg			**7.14E-5**	< 4.97E-6 U	**3.27E-5**		< 2.50E-6 U	**7.65E-3**
PCB-182/187	mg/kg			**9.52E-3**	**2.12E-3**	**7.33E-3**		**2.61E-5**	**9.99E-1**
PCB-183	mg/kg			**4.26E-3**	**8.54E-4**	**2.95E-3**		**1.30E-5**	**5.37E-1**
PCB-184	mg/kg			**5.70E-6**	< 4.97E-6 U	**2.52E-6**		< 2.50E-6 U	**3.93E-4**
PCB-185	mg/kg			**9.96E-4**	**1.59E-4**	**6.75E-4**		< 2.50E-6 U	**1.05E-1**
PCB-186	mg/kg			**1.45E-6 J**	< 4.97E-6 U	< 9.14E-7 U		< 2.50E-6 U	**1.42E-4**
PCB-188	mg/kg			**1.23E-5**	< 4.97E-6 U	**7.45E-6**		< 2.50E-6 U	**4.23E-4**
PCB-189	mg/kg			**1.96E-4**	**5.69E-5**	**2.02E-4**		**1.20E-6 J**	**3.39E-2**
PCB-190	mg/kg			**1.25E-3**	**3.37E-4**	**1.67E-3**		**3.34E-6**	**1.93E-1**
PCB-191	mg/kg			**2.48E-4**	**6.25E-5**	**2.72E-4**		< 2.50E-6 U	**3.60E-2**
PCB-192	mg/kg			< 4.99E-6 U	< 4.97E-6 U	< 1.20E-6 U		< 2.50E-6 U	< 2.51E-5 U
PCB-193	mg/kg			**8.71E-4**	**2.18E-4**	**1.00E-3**		**2.77E-6**	**9.48E-2**
PCB-194	mg/kg			**3.59E-3**	**9.79E-4**	**9.46E-3**		**9.25E-6**	**4.33E-1**
PCB-195	mg/kg			**1.58E-3**	**3.93E-4**	**3.78E-3**		**3.44E-6**	**1.77E-1**
PCB-196/203	mg/kg			**4.05E-3**	**1.13E-3**	**7.11E-3**		**1.24E-5**	**4.47E-1**
PCB-197	mg/kg			**1.48E-4**	**3.15E-5**	**1.61E-4**		< 2.50E-6 U	**1.49E-2**
PCB-198	mg/kg			**1.46E-4**	**4.85E-5**	**2.87E-4**		< 2.50E-6 U	**2.78E-2**
PCB-199	mg/kg			**3.92E-3**	**1.12E-3**	**6.11E-3**		**1.31E-5**	**3.86E-1**
PCB-200	mg/kg			**5.64E-4**	**1.21E-4**	**6.72E-4**		< 2.50E-6 U	**5.18E-2**
PCB-201	mg/kg			**5.77E-4**	**1.13E-4**	**6.07E-4**		< 2.50E-6 U	**5.41E-2**
PCB-202	mg/kg			**7.88E-4**	**1.59E-4**	**6.99E-4**		**1.95E-6 J**	**6.25E-2**
PCB-204	mg/kg			< 4.99E-6 U	< 4.97E-6 U	**1.24E-6**		< 2.50E-6 U	**6.15E-5**
PCB-205	mg/kg			**1.62E-4**	**5.12E-5**	**3.78E-4**		< 2.50E-6 U	**1.84E-2**
PCB-206	mg/kg			**1.22E-3**	**3.17E-4**	**2.77E-3**		< 2.50E-6 U	**1.20E-1**
PCB-207	mg/kg			**1.67E-4**	**4.15E-5**	**2.92E-4**		< 2.50E-6 U	**1.64E-2**
PCB-208	mg/kg			**3.62E-4**	**8.64E-5**	**3.78E-4**		< 2.50E-6 U	**2.38E-2**
PCB-209	mg/kg			**1.09E-3**	**1.75E-4**	**2.05E-4**		< 2.50E-6 U	**6.69E-3**
Total Decachlorobiphenyls	mg/kg			**1.09E-3**	**1.75E-4**			< 2.76E-7 U	**6.69E-3**
Total Dichlorobiphenyls	mg/kg			**6.82E-4**	< 5.00E-6 U	**9.93E-5**		< 1.09E-6 U	**4.29E-1**
Total Heptachlorobiphenyls	mg/kg			**6.41E-2**	**1.40E-2**	**5.51E-2**		**1.51E-4**	**7.70E+0**
Total Hexachlorobiphenyls	mg/kg			**8.34E-2**	**1.33E-2 J**	**2.42E-2**		**2.80E-4**	**2.09E+1**
Total Monochlorobiphenyls	mg/kg			**1.54E-4**	**1.94E-5**	**5.91E-6**		**2.37E-6**	**4.36E-2**
Total Nonachlorobiphenyls	mg/kg			**1.74E-3**	**4.45E-4**	**3.44E-3**		< 2.89E-6 U	**1.60E-1**
Total Octachlorobiphenyls	mg/kg			**1.55E-2**	**4.15E-3**	**2.93E-2**		**4.01E-5**	**1.67E+0**
Total Pentachlorobiphenyls	mg/kg			**4.03E-2 J**	**3.84E-3 J**	**6.05E-3**		**2.28E-4**	**2.75E+1**
Total Tetrachlorobiphenyls	mg/kg			**6.91E-3 J**	**3.63E-4 J**	**1.14E-3**		**1.64E-5**	**6.80E+0**
Total Trichlorobiphenyls	mg/kg			**2.04E-3**	**1.11E-5 J**	**3.65E-4**		**1.04E-5**	**1.65E+0**
Total PCB Congeners (ND = 0)	mg/kg	1.8E-4	SL-3, PQL Adj.	**2.16E-1 J**	**3.62E-2 J**	**1.22E-1 J**		**7.28E-4 J**	**6.68E+1 J**
Total PCB TEQ (ND = 0)	mg/kg	7.0E-7	SL-3, PQL Adj.	**7.57E-6**	**1.69E-6**	**1.34E-6 J**		**3.32E-10 J**	**1.88E-3**

Notes:

Bold = detected

Gray Shaded = Nondetect result has an RDL that exceeds the Proposed RI CUL

Blue Shaded = Detected result exceeded the Proposed RI CUL

Proposed RI CUL = Proposed Remedial Investigation Cleanup Level

mg/kg = milligrams per kilogram

U = Analyte not detected at or above the RDL shown

J = Result value estimated

UJ = Analyte not detected, and the RDL shown is an estimate

(ND = 0) = calculated using zero for nondetected components

TEQ = Toxic Equivalency

A = One or more of the nine common Aroclor groups (1016, 1221, 1232, 1242, 1248, 1254, 1260, 1262, and 1268) were not reported, and the Total PCB Aroclors (ND = 0) sum assumes the missing components were nondetect.

Total PCB Aroclors (ND = 0) are the sum of Aroclors available, with nondetects = 0, unless all Aroclors were not detected, in which case the Total PCB Aroclors concentration is shown as nondetect at the maximum RDL for any individual Aroclor.

RDL = Reported Detection Limit

Table I.6.B.2. Individual PCB Congeners and Co-Located Aroclors in Vadose Soil

South Park Marina Site, Seattle, Washington

			Location	SB-31	SB-32	SB-34	SB-36	SB-37	
			Sample Date	03/01/21	03/08/21	03/01/21	09/12/22	09/13/22	09/13/22
			Sample	SB-31-0-1	SB-32-0-1	SB-34-0-1	SB-36-0-1-TIG	SB-37-0-1	SB-37-0-2-TIG
Analyte	Unit	Proposed RI CUL	Basis of CUL						
Polychlorinated Biphenyl Aroclors									
Aroclor 1016	mg/kg			< 0.004 U	< 0.0399 U	< 0.0035 U		< 0.004 U	
Aroclor 1221	mg/kg			< 0.004 U	< 0.0399 U	< 0.0035 U		< 0.004 U	
Aroclor 1232	mg/kg			< 0.004 U	< 0.0399 U	< 0.0035 U		< 0.004 U	
Aroclor 1242	mg/kg			< 0.004 U	< 0.0399 U	< 0.0035 U		< 0.004 U	
Aroclor 1248	mg/kg			< 0.004 U	< 0.0399 U	< 0.0035 U		< 0.004 U	
Aroclor 1254	mg/kg			**0.0045**	< 0.0399 U	**0.038**		**6.8**	
Aroclor 1260	mg/kg			**0.0246**	**0.746 J**	**0.0557**		< 0.004 U	
Aroclor 1262	mg/kg			< 0.004 U	< 0.0399 U	< 0.0035 U		< 0.004 U	
Aroclor 1268	mg/kg			< 0.004 U	< 0.0399 U	< 0.0035 U		< 0.004 U	
Total PCB Aroclors (ND = 0)	mg/kg	0.036	SL-3, PQL Adj.	**0.0291**	**0.746 J**	**0.0937**		**6.8**	
Polychlorinated Biphenyl Congeners									
PCB-001	mg/kg			< 4.98E-6 U	**5.03E-6**	< 5.02E-6 U	**1.34E-3**		**9.12E-5**
PCB-002	mg/kg			< 4.98E-6 U	**7.35E-6**	< 5.02E-6 U	**3.62E-4**		**1.98E-5**
PCB-003	mg/kg			< 4.98E-6 U	**7.10E-6**	< 5.02E-6 U	**2.90E-3**		**1.21E-4**
PCB-004/010	mg/kg			< 9.97E-6 U	< 9.99E-6 U	< 1.00E-5 U	**2.77E-4**		**9.06E-5**
PCB-005/008	mg/kg			< 9.97E-6 U	**6.60E-6 J**	< 1.00E-5 U	**1.18E-3**		**1.92E-4**
PCB-006	mg/kg			< 4.98E-6 U	< 5.00E-6 U	< 5.02E-6 U	**2.61E-4**		**3.79E-5**
PCB-007/009	mg/kg			< 9.97E-6 U	< 9.99E-6 U	< 1.00E-5 U	**1.85E-4**		**2.10E-5**
PCB-011	mg/kg			< 4.98E-6 U	< 5.00E-6 U	< 5.02E-6 U	**6.68E-5**		**1.02E-5**
PCB-012/013	mg/kg			< 9.97E-6 U	< 9.99E-6 U	< 1.00E-5 U	**3.74E-4**		**4.21E-5**
PCB-014	mg/kg			< 4.98E-6 U	< 5.00E-6 U	< 5.02E-6 U	< 2.42E-5 U		< 2.48E-6 U
PCB-015	mg/kg			**1.51E-5**	< 5.00E-6 U	**1.61E-5**	**3.31E-3**		**6.63E-4**
PCB-016/032	mg/kg			< 9.97E-6 U	**7.78E-6 J**	< 1.00E-5 U	**5.67E-4**		**3.40E-4**
PCB-017	mg/kg			< 4.98E-6 U	**3.90E-6 J**	< 5.02E-6 U	**2.77E-4**		**1.25E-4**
PCB-018	mg/kg			**4.62E-6 J**	< 5.00E-6 U	< 5.02E-6 U	**6.87E-4**		**3.98E-4**
PCB-019	mg/kg			< 4.98E-6 U	< 5.00E-6 U	< 5.02E-6 U	**2.96E-4**		**8.91E-5**
PCB-020/021/033	mg/kg			**5.40E-6 J**	< 1.50E-5 U	**8.85E-6 J**	**7.97E-4**		**2.37E-4**
PCB-022	mg/kg			< 4.98E-6 U	**6.48E-6**	< 5.02E-6 U	**3.42E-4**		**1.28E-4**
PCB-023	mg/kg			< 4.98E-6 U	< 5.00E-6 U	< 5.02E-6 U	< 2.42E-5 U		< 2.48E-6 U
PCB-024/027	mg/kg			< 9.97E-6 U	< 9.99E-6 U	< 1.00E-5 U	**1.07E-4**		**4.30E-5**
PCB-025	mg/kg			**1.22E-6 J**	< 5.00E-6 U	< 5.02E-6 U	**8.00E-5**		**2.71E-5**
PCB-026	mg/kg			**2.28E-6 J**	**2.63E-6 J**	< 5.02E-6 U	**1.73E-4**		**7.48E-5**
PCB-028	mg/kg			**1.94E-5**	**1.43E-5**	< 5.02E-6 U	**9.46E-4**		**4.61E-4**
PCB-029	mg/kg			< 4.98E-6 U	< 5.00E-6 U	< 5.02E-6 U	< 2.42E-5 U		**2.44E-6 J**
PCB-030	mg/kg			< 4.98E-6 U	< 5.00E-6 U	< 5.02E-6 U	< 2.42E-5 U		< 2.48E-6 U
PCB-031	mg/kg			< 4.98E-6 U	< 5.00E-6 U	**1.32E-5**	**7.33E-4**		**4.86E-4**
PCB-034	mg/kg			< 4.98E-6 U	< 5.00E-6 U	< 5.02E-6 U	< 2.42E-5 U		**1.35E-6 J**
PCB-035	mg/kg			< 4.98E-6 U	< 5.00E-6 U	< 5.02E-6 U	< 2.42E-5 U		**1.70E-5**
PCB-036	mg/kg			< 4.98E-6 U	< 5.00E-6 U	< 5.02E-6 U	< 2.42E-5 U		< 2.48E-6 U
PCB-037	mg/kg			**2.46E-5**	**2.32E-5**	**1.69E-5**	**9.35E-4**		**3.39E-4**
PCB-038	mg/kg			< 4.98E-6 U	< 5.00E-6 U	< 5.02E-6 U	**8.92E-5**		**2.06E-5**
PCB-039	mg/kg			< 4.98E-6 U	< 5.00E-6 U	< 5.02E-6 U	< 2.42E-5 U		**1.31E-6 J**
PCB-040	mg/kg			**5.94E-6**	< 5.00E-6 U	< 5.02E-6 U	**1.30E-3**		**7.74E-4**
PCB-041/064/071/072	mg/kg			**4.46E-5**	**4.03E-5**	< 2.01E-5 U	**4.79E-3**		**4.48E-3**
PCB-042	mg/kg								
PCB-042/059	mg/kg			**9.62E-6 J**	**1.28E-5**	< 1.00E-5 U	**2.16E-3**		**8.68E-4**
PCB-043/049	mg/kg			**2.18E-5**	**6.48E-5**	**1.57E-5**	**6.65E-3**		**5.21E-3**
PCB-044	mg/kg			**3.28E-5**	**8.21E-5**	**2.90E-5**	**7.99E-3**		**1.20E-2**
PCB-045	mg/kg			**5.83E-6**	**1.38E-5**	< 5.02E-6 U	**2.14E-3**		**3.39E-4**
PCB-046	mg/kg			< 4.98E-6 U	< 5.00E-6 U	< 5.02E-6 U	**1.11E-3**		**1.32E-4**
PCB-047	mg/kg			< 4.98E-6 U	**1.37E-5**	**3.82E-6 J**	**2.75E-3**		**1.01E-3**
PCB-048/075	mg/kg			**3.70E-6 J**	< 9.99E-6 U	< 1.00E-5 U	**1.87E-4**		**2.60E-4**
PCB-050	mg/kg			< 4.98E-6 U	< 5.00E-6 U	< 5.02E-6 U	< 2.42E-5 U		**2.67E-6**
PCB-051	mg/kg			< 4.98E-6 U	< 5.00E-6 U	< 5.02E-6 U	**8.13E-4**		**7.66E-5**
PCB-052/069	mg/kg			**7.33E-5**	**2.00E-4**	**3.96E-5**	**4.16E-2**		**2.90E-2**
PCB-053	mg/kg			< 4.98E-6 U	**2.10E-5**	**5.91E-6**	**4.59E-3**		**7.41E-4**
PCB-054	mg/kg			< 4.98E-6 U	< 5.00E-6 U	< 5.02E-6 U	**3.93E-5**		**5.95E-6**
PCB-055	mg/kg			< 4.98E-6 U	**1.58E-6 J**	< 5.02E-6 U	< 2.42E-5 U		< 2.48E-6 U
PCB-056/060	mg/kg			**3.32E-5**	**4.59E-5**	**2.18E-5**	**1.94E-3**		**2.23E-3**
PCB-057	mg/kg			< 4.98E-6 U	< 5.00E-6 U	< 5.02E-6 U	**4.80E-5**		< 2.48E-6 U
PCB-058	mg/kg			< 4.98E-6 U	< 5.00E-6 U	< 5.02E-6 U	**3.62E-5**		**9.63E-6**
PCB-061/070	mg/kg			**5.44E-5**	**1.30E-4**	**4.50E-5**	**9.42E-3**		**1.30E-2**
PCB-062	mg/kg			< 4.98E-6 U	< 5.00E-6 U	< 5.02E-6 U	< 2.42E-5 U		< 2.48E-6 U
PCB-063	mg/kg			< 4.98E-6 U	< 5.00E-6 U	< 5.02E-6 U	**6.95E-5**		**9.37E-5**
PCB-065	mg/kg			< 4.98E-6 U	< 5.00E-6 U	< 5.02E-6 U	< 2.42E-5 U		< 2.48E-6 U
PCB-066/076	mg/kg			**5.35E-5**	**4.47E-5**	**2.50E-5**	**4.01E-3**		**4.45E-3**
PCB-067	mg/kg			< 4.98E-6 U	< 5.00E-6 U	< 5.02E-6 U	**5.85E-5**		**2.54E-5**
PCB-068	mg/kg			< 4.98E-6 U	< 5.00E-6 U	< 5.02E-6 U	**7.98E-5**		**2.17E-5**
PCB-073	mg/kg			< 4.98E-6 U	< 5.00E-6 U	< 5.02E-6 U	< 2.42E-5 U		**8.44E-6**
PCB-074	mg/kg			< 4.98E-6 U	**1.98E-5**	**1.30E-5**	**1.30E-3**		**1.98E-3**
PCB-077	mg/kg			**2.82E-5**	< 5.00E-6 U	< 5.02E-6 U	**1.50E-3**		**3.76E-4**
PCB-078	mg/kg			< 4.98E-6 U	< 5.00E-6 U	< 5.02E-6 U	**7.59E-4**		**1.43E-4**
PCB-079	mg/kg			**3.18E-6 J**	< 5.00E-6 U	**3.46E-6 J**	**2.95E-3**		**5.33E-4**

Table I.6.B.2. Individual PCB Congeners and Co-Located Aroclors in Vadose Soil

South Park Marina Site, Seattle, Washington

			Location	SB-31	SB-32	SB-34	SB-36	SB-37	
			Sample Date	03/01/21	03/08/21	03/01/21	09/12/22	09/13/22	09/13/22
			Sample	SB-31-0-1	SB-32-0-1	SB-34-0-1	SB-36-0-1-TIG	SB-37-0-1	SB-37-0-2-TIG
Analyte	Unit	Proposed RI CUL	Basis of CUL						
PCB-080	mg/kg			< 4.98E-6 U	< 5.00E-6 U	< 5.02E-6 U	< 2.42E-5 U		< 2.48E-6 U
PCB-081	mg/kg			**1.41E-6 J**	< 5.00E-6 U	**1.47E-6 J**	**1.10E-3**		**1.53E-4**
PCB-082	mg/kg			< 4.98E-6 U	**1.02E-4**	**2.52E-5**	**3.64E-2**		**7.72E-3**
PCB-083	mg/kg			< 4.98E-6 U	< 5.00E-6 U	< 5.02E-6 U	< 2.42E-5 U		< 2.48E-6 U
PCB-084/092	mg/kg			**1.22E-4**	**9.81E-4**	**1.14E-4**	**1.73E-1**		**3.69E-2**
PCB-085/116	mg/kg			**4.33E-5**	**1.42E-4**	**4.68E-5**	**5.59E-2**		**1.12E-2**
PCB-086	mg/kg			< 4.98E-6 U	< 5.00E-6 U	< 5.02E-6 U	< 2.42E-5 U		**9.99E-5**
PCB-087/117/125	mg/kg			**7.43E-5**	**4.89E-4**	**6.06E-5**	**9.08E-2**		**2.85E-2**
PCB-088/091	mg/kg			**4.21E-5**	**1.54E-4**	**6.81E-5**	**5.97E-2**		**9.67E-3**
PCB-089	mg/kg			< 4.98E-6 U	**7.00E-6**	< 5.02E-6 U	**2.38E-3**		**3.61E-4**
PCB-090/101	mg/kg			**2.29E-4**	**4.62E-3**	**1.91E-4**	**3.30E-1**		**8.20E-2**
PCB-093	mg/kg			**6.72E-6**	**1.57E-4**	**1.08E-5**	< 2.42E-5 U		< 2.48E-6 U
PCB-094	mg/kg			< 4.98E-6 U	< 5.00E-6 U	< 5.02E-6 U	**1.05E-3**		**1.95E-4**
PCB-095/098/102	mg/kg			**2.35E-4**	**4.40E-3**	**2.19E-4**	**3.01E-1**		**6.60E-2**
PCB-096	mg/kg			**3.08E-6 J**	**5.61E-6**	**2.85E-6 J**	**1.60E-3**		**3.32E-4**
PCB-097	mg/kg			**6.09E-5**	**2.72E-4**	**3.84E-5**	**9.26E-2**		**2.18E-2**
PCB-099	mg/kg			**8.44E-5**	**3.45E-4**	**8.14E-5**	**1.33E-1**		**3.09E-2**
PCB-100	mg/kg			< 4.98E-6 U	< 5.00E-6 U	< 5.02E-6 U	**6.10E-4**		**9.97E-5**
PCB-103	mg/kg			**1.53E-6 J**	**6.16E-6**	< 5.02E-6 U	**1.33E-3**		**2.53E-4**
PCB-104	mg/kg			< 4.98E-6 U	< 5.00E-6 U	< 5.02E-6 U	**9.93E-6 J**		**1.41E-6 J**
PCB-105	mg/kg			**1.05E-4**	**6.37E-4**	**9.26E-5**	**3.58E-2**		**2.34E-2**
PCB-106/118	mg/kg			**2.45E-4**	**1.62E-3**	**1.92E-4**	**1.38E-1**		**5.52E-2**
PCB-107/109	mg/kg			**1.66E-5**	**6.53E-5**	**1.92E-5**	**7.38E-3**		**2.87E-3**
PCB-108/112	mg/kg			< 9.97E-6 U	**3.54E-5**	< 1.00E-5 U	**1.28E-2**		**2.59E-3**
PCB-110	mg/kg			**4.64E-4**	**3.29E-3**	**8.49E-4**	**4.66E-1**		**9.82E-2**
PCB-111/115	mg/kg			**5.39E-6 J**	< 9.99E-6 U	**7.11E-6 J**	**1.35E-3**		**9.83E-4**
PCB-113	mg/kg			< 4.98E-6 U	< 5.00E-6 U	< 5.02E-6 U	**1.55E-4**		**2.20E-5**
PCB-114	mg/kg			**6.66E-6**	**1.28E-5**	< 5.02E-6 U	**4.36E-4**		**7.82E-4**
PCB-119	mg/kg			**6.23E-6**	**8.27E-6**	< 5.02E-6 U	**4.16E-3**		**7.90E-4**
PCB-120	mg/kg			< 4.98E-6 U	**5.25E-5**	< 5.02E-6 U	**5.27E-4**		**8.32E-5**
PCB-121	mg/kg			**8.19E-7 J**	**3.27E-6 J**	< 5.02E-6 U	< 2.42E-5 U		< 2.48E-6 U
PCB-122	mg/kg			< 4.98E-6 U	**1.86E-5**	**4.36E-6 J**	**2.84E-3**		**7.80E-4**
PCB-123	mg/kg			**4.85E-6 J**	< 5.00E-6 U	**4.34E-6 J**	**5.44E-3**		**7.93E-4**
PCB-124	mg/kg			**1.98E-5**	**6.87E-5**	< 5.02E-6 U	**1.19E-2**		**2.30E-3**
PCB-126	mg/kg			**6.86E-6**	**3.93E-5**	**8.52E-6**	**1.59E-3**		**2.35E-4**
PCB-127	mg/kg			< 4.98E-6 U	< 5.00E-6 U	< 5.02E-6 U	< 2.42E-5 U		< 2.48E-6 U
PCB-128/162	mg/kg			**1.40E-4**	**1.43E-3**	**3.84E-4**	**8.22E-2**		**1.42E-2**
PCB-129	mg/kg			**3.50E-5**	**3.40E-4**	**6.01E-5**	**2.29E-2**		**4.35E-3**
PCB-130	mg/kg			**7.06E-5**	**8.01E-4**	**1.60E-4**	**3.20E-2**		**5.59E-3**
PCB-131	mg/kg								
PCB-131/133	mg/kg			< 9.97E-6 U	**3.45E-4**	**8.13E-5**	**1.11E-2**		**1.77E-3**
PCB-132/161	mg/kg			**3.22E-4**	**4.99E-3**	**5.09E-4**	**1.20E-1**		**2.41E-2**
PCB-133/142	mg/kg								
PCB-134/143	mg/kg			**5.37E-5**	**8.45E-4**	**1.04E-4**	**2.45E-2**		**4.00E-3**
PCB-135	mg/kg			**1.68E-4**	**2.91E-3**	**2.76E-4**	**3.99E-2**		**7.46E-3**
PCB-136	mg/kg			**1.70E-4**	**3.69E-3**	**2.75E-4**	**4.97E-2**		**9.24E-3**
PCB-137	mg/kg			**3.14E-5**	**1.43E-4**	**7.99E-5**	**2.81E-2**		**4.71E-3**
PCB-138/163/164	mg/kg			**1.43E-3**	**2.10E-2**	**2.15E-3**	**4.62E-1**		**8.12E-2**
PCB-139/149	mg/kg			**1.23E-3**	**2.18E-2**	**1.88E-3**	**2.68E-1**		**4.59E-2**
PCB-140	mg/kg			**7.35E-6**	**2.94E-5**	**1.57E-5**	**1.61E-3**		**2.96E-4**
PCB-141	mg/kg			**3.30E-4**	**6.55E-3**	**3.36E-4**	**8.07E-2**		**1.38E-2**
PCB-142	mg/kg			< 4.98E-6 U	< 5.00E-6 U	< 5.02E-6 U	**7.06E-5**		**1.55E-5**
PCB-144	mg/kg			< 4.98E-6 U	**1.44E-3**	**5.43E-5**	**1.98E-2**		**2.88E-3**
PCB-145	mg/kg			< 4.98E-6 U	**9.57E-7 J**	< 5.02E-6 U	**1.14E-4**		**2.56E-5**
PCB-146/165	mg/kg			**2.10E-4**	**2.89E-3**	**3.97E-4**	**4.93E-2**		**7.00E-3**
PCB-147	mg/kg			**9.21E-6**	**6.90E-5**	**3.48E-5**	**7.41E-3**		**1.72E-3**
PCB-148	mg/kg			< 4.98E-6 U	< 5.00E-6 U	< 5.02E-6 U	**1.68E-4**		**2.57E-5**
PCB-150	mg/kg			< 4.98E-6 U	**8.54E-6**	**4.69E-6 J**	**3.02E-4**		**5.33E-5**
PCB-151	mg/kg			**4.33E-4**	**8.22E-3**	**4.17E-4**	**6.79E-2**		**1.04E-2**
PCB-152	mg/kg			< 4.98E-6 U	< 5.00E-6 U	< 5.02E-6 U	**2.85E-4**		**6.13E-5**
PCB-153	mg/kg			**1.36E-3**	**2.27E-2**	**1.43E-3**	**3.84E-1**		**5.68E-2**
PCB-154	mg/kg			< 4.98E-6 U	< 5.00E-6 U	**2.33E-5**	**2.87E-3**		**4.86E-4**
PCB-155	mg/kg			< 4.98E-6 U	< 5.00E-6 U	< 5.02E-6 U	< 2.42E-5 U		**6.13E-7 J**
PCB-156	mg/kg			**7.44E-5**	**8.74E-4**	**8.68E-5**	**2.29E-2**		**6.33E-3**
PCB-157	mg/kg			**2.12E-5**	< 5.00E-6 U	**5.26E-5**	**1.16E-2**		**2.12E-3**
PCB-158/160	mg/kg			**1.36E-4**	**1.87E-3**	**2.58E-4**	**5.61E-2**		**9.49E-3**
PCB-159	mg/kg			< 4.98E-6 U	< 5.00E-6 U	< 5.02E-6 U	< 2.42E-5 U		< 2.48E-6 U
PCB-166	mg/kg			< 4.98E-6 U	< 5.00E-6 U	< 5.02E-6 U	**1.25E-3**		**2.74E-4**
PCB-167	mg/kg			**4.78E-5**	**5.15E-4**	**8.16E-5**	**2.02E-2**		**3.13E-3**
PCB-168	mg/kg			< 4.98E-6 U	< 5.00E-6 U	< 5.02E-6 U	**3.98E-4**		**6.24E-5**
PCB-169	mg/kg			< 4.98E-6 U	**6.25E-6**	< 5.02E-6 U	< 2.42E-5 U		< 2.48E-6 U
PCB-170	mg/kg			**1.02E-3**	**1.20E-2**	**1.02E-3**	**8.22E-2**		**9.07E-3**
PCB-171	mg/kg			**2.69E-4**	**3.23E-3**	**2.83E-4**	**2.38E-2**		**2.47E-3**

Table I.6.B.2. Individual PCB Congeners and Co-Located Aroclors in Vadose Soil

South Park Marina Site, Seattle, Washington

			Location	SB-31	SB-32	SB-34	SB-36	SB-37	
			Sample Date	03/01/21	03/08/21	03/01/21	09/12/22	09/13/22	09/13/22
			Sample	SB-31-0-1	SB-32-0-1	SB-34-0-1	SB-36-0-1-TIG	SB-37-0-1	SB-37-0-2-TIG
Analyte	Unit	Proposed RI CUL	Basis of CUL						
PCB-172	mg/kg			**1.84E-4**	**2.00E-3**	**1.92E-4**	**1.31E-2**		**1.22E-3**
PCB-173	mg/kg			< 4.98E-6 U	**2.63E-4**	**2.58E-5**	**1.73E-3**		**2.08E-4**
PCB-174	mg/kg			**1.34E-3**	**1.61E-2**	**1.36E-3**	**8.13E-2**		**7.58E-3**
PCB-175	mg/kg			**4.45E-5**	**5.19E-4**	**5.23E-5**	**3.72E-3**		**3.59E-4**
PCB-176	mg/kg			**1.27E-4**	**1.84E-3**	**1.48E-4**	**1.16E-2**		**1.08E-3**
PCB-177	mg/kg			**6.99E-4**	**8.38E-3**	**7.30E-4**	**4.28E-2**		**4.21E-3**
PCB-178	mg/kg			**2.35E-4**	**2.95E-3**	**2.62E-4**	**1.46E-2**		**1.38E-3**
PCB-179	mg/kg			**4.71E-4**	**6.89E-3**	**5.81E-4**	**3.27E-2**		**3.45E-3**
PCB-180	mg/kg			**3.11E-3**	**3.34E-2**	**2.96E-3**	**1.67E-1**		**1.94E-2**
PCB-181	mg/kg			< 4.98E-6 U	**9.57E-5**	**6.40E-6**	**4.19E-4**		**7.30E-5**
PCB-182/187	mg/kg			**1.50E-3**	**1.75E-2**	**1.68E-3**	**9.05E-2**		**8.64E-3**
PCB-183	mg/kg			**6.91E-4**	**7.56E-3**	**7.01E-4**	**5.39E-2**		**5.33E-3**
PCB-184	mg/kg			< 4.98E-6 U	**5.13E-6**	**3.20E-6 J**	**5.79E-5**		**5.46E-6**
PCB-185	mg/kg			**1.58E-4**	**1.79E-3**	**1.57E-4**	**1.01E-2**		**8.23E-4**
PCB-186	mg/kg			< 4.98E-6 U	< 5.00E-6 U	< 5.02E-6 U	**2.15E-5 J**		**3.67E-6**
PCB-188	mg/kg			**1.41E-6 J**	< 5.00E-6 U	< 5.02E-6 U	**7.84E-5**		< 2.48E-6 U
PCB-189	mg/kg			**3.03E-5**	**3.63E-4**	**4.05E-5**	**3.35E-3**		**3.47E-4**
PCB-190	mg/kg			**2.29E-4**	**2.69E-3**	**2.14E-4**	**1.69E-2**		**1.72E-3**
PCB-191	mg/kg			**4.09E-5**	**4.83E-4**	**4.43E-5**	**3.60E-3**		**3.56E-4**
PCB-192	mg/kg			< 4.98E-6 U	< 5.00E-6 U	< 5.02E-6 U	< 2.42E-5 U		< 2.48E-6 U
PCB-193	mg/kg			**1.51E-4**	**1.73E-3**	**1.54E-4**	**9.24E-3**		**8.14E-4**
PCB-194	mg/kg			**8.74E-4**	**7.44E-3**	**8.06E-4**	**4.42E-2**		**3.54E-3**
PCB-195	mg/kg			**3.54E-4**	**3.21E-3**	**3.13E-4**	**1.69E-2**		**1.37E-3**
PCB-196/203	mg/kg			**9.70E-4**	**8.46E-3**	**9.45E-4**	**6.18E-2**		**5.07E-3**
PCB-197	mg/kg			**2.79E-5**	**2.73E-4**	**3.24E-5**	**2.04E-3**		**1.48E-4**
PCB-198	mg/kg			**4.23E-5**	**3.79E-4**	**3.47E-5**	**2.31E-3**		**2.00E-4**
PCB-199	mg/kg			**8.60E-4**	**8.12E-3**	**9.39E-4**	**4.80E-2**		**4.12E-3**
PCB-200	mg/kg			**1.02E-4**	**1.09E-3**	**1.12E-4**	**6.67E-3**		**5.26E-4**
PCB-201	mg/kg			**1.03E-4**	**1.04E-3**	**1.30E-4**	**7.59E-3**		**5.80E-4**
PCB-202	mg/kg			**1.22E-4**	**1.27E-3**	**1.75E-4**	**8.34E-3**		**7.17E-4**
PCB-204	mg/kg			< 4.98E-6 U	< 5.00E-6 U	< 5.02E-6 U	< 2.42E-5 U		**1.27E-6 J**
PCB-205	mg/kg			**4.04E-5**	**3.53E-4**	**3.54E-5**	**2.01E-3**		**1.50E-4**
PCB-206	mg/kg			**2.35E-4**	**1.91E-3**	**4.74E-4**	**2.17E-2**		**2.07E-3**
PCB-207	mg/kg			**3.51E-5**	**2.67E-4**	**9.16E-5**	**3.14E-3**		**2.70E-4**
PCB-208	mg/kg			**4.45E-5**	**4.79E-4**	**1.46E-4**	**5.07E-3**		**5.22E-4**
PCB-209	mg/kg			**2.88E-5**	**1.31E-3**	**6.55E-4**	**4.47E-3**		**3.93E-4**
Total Decachlorobiphenyls	mg/kg			**2.88E-5**	**1.31E-3**	**6.55E-4**	**4.47E-3**		**3.93E-4**
Total Dichlorobiphenyls	mg/kg			**1.51E-5 J**	**6.60E-6 J**	**1.61E-5**	**5.65E-3**		**1.06E-3**
Total Heptachlorobiphenyls	mg/kg			**1.03E-2**	**1.20E-1**	**1.06E-2**	**6.63E-1**		**6.86E-2**
Total Hexachlorobiphenyls	mg/kg			**6.28E-3 J**	**1.04E-1 J**	**9.15E-3 J**	**1.87E+0**		**3.18E-1**
Total Monochlorobiphenyls	mg/kg			< 4.59E-7 U	**1.95E-5**	< 9.55E-6 J	**4.60E-3**		**2.32E-4**
Total Nonachlorobiphenyls	mg/kg			**3.15E-4**	**2.65E-3**	**7.12E-4**	**2.99E-2**		**2.86E-3**
Total Octachlorobiphenyls	mg/kg			**3.50E-3**	**3.16E-2**	**3.52E-3**	**2.00E-1**		**1.64E-2**
Total Pentachlorobiphenyls	mg/kg			**1.78E-3 J**	**1.75E-2 J**	**2.04E-3 J**	**1.97E+0**		**4.85E-1**
Total Tetrachlorobiphenyls	mg/kg			**3.72E-4 J**	**6.91E-4 J**	**2.04E-4 J**	**9.94E-2**		**7.78E-2**
Total Trichlorobiphenyls	mg/kg			**5.75E-5 J**	**5.84E-5 J**	**3.90E-5 J**	**6.03E-3**		**2.79E-3**
Total PCB Congeners (ND = 0)	mg/kg	1.8E-4	SL-3, PQL Adj.	**2.26E-2 J**	**2.77E-1 J**	**2.69E-2 J**	**4.85E+0 J**		**9.73E-1 J**
Total PCB TEQ (ND = 0)	mg/kg	7.0E-7	SL-3, PQL Adj.	**6.98E-7 J**	**4.19E-6**	**8.63E-7 J**	**1.62E-4**		**2.47E-5**

Notes:

Bold = detected

Gray Shaded = Nondetect result has an RDL that exceeds the Proposed RI CUL

Blue Shaded = Detected result exceeded the Proposed RI CUL

Proposed RI CUL = Proposed Remedial Investigation Cleanup Level

mg/kg = milligrams per kilogram

U = Analyte not detected at or above the RDL shown

J = Result value estimated

UJ = Analyte not detected, and the RDL shown is an estimate

(ND = 0) = calculated using zero for nondetected components

TEQ = Toxic Equivalency

A = One or more of the nine common Aroclor groups (1016, 1221, 1232, 1242, 1248, 1254, 1260, 1262, and 1268) were not reported, and the Total PCB Aroclors (ND = 0) sum assumes the missing components were nondetect.

Total PCB Aroclors (ND = 0) are the sum of Aroclors available, with nondetects = 0, unless all Aroclors were not detected, in which case the Total PCB Aroclors concentration is shown as nondetect at the maximum RDL for any individual Aroclor.

RDL = Reported Detection Limit

Table I.6.B.2. Individual PCB Congeners and Co-Located Aroclors in Vadose Soil

South Park Marina Site, Seattle, Washington

			Location	SB-39	SB-40		SB-42	SS-01
			Sample Date	09/13/22	09/26/22	09/26/22	09/22/22	02/09/16
			Sample	SB-39-0-1	SB-40-0-1	SB-40-0-1-TIG	SB-42-0-1	SPM-SS-01-02092016
Analyte	Unit	Proposed RI CUL	Basis of CUL					
Polychlorinated Biphenyl Aroclors								
Aroclor 1016	mg/kg			< 0.004 U	< 0.08 U		< 2 U	< 0.004 U
Aroclor 1221	mg/kg			< 0.004 U	< 0.08 U		< 2 U	< 0.004 U
Aroclor 1232	mg/kg			< 0.004 U	< 0.08 U		< 2 U	< 0.004 U
Aroclor 1242	mg/kg			< 0.004 U	< 0.08 U		< 2 U	< 0.004 U
Aroclor 1248	mg/kg			< 0.004 U	< 0.08 U		< 2 U	< 0.004 U
Aroclor 1254	mg/kg			**24**	**0.12**		< 2 U	< 0.004 U
Aroclor 1260	mg/kg			< 0.004 U	**1.2**		**50**	**0.0075**
Aroclor 1262	mg/kg			< 0.004 U	< 0.08 U		< 2 U	< 0.004 U
Aroclor 1268	mg/kg			< 0.004 U	< 0.08 U		< 2 U	< 0.004 U
Total PCB Aroclors (ND = 0)	mg/kg	0.036	SL-3, PQL Adj.	**24**	**1.32**		**50**	**0.0075**
Polychlorinated Biphenyl Congeners								
PCB-001	mg/kg			**1.91E-4**	**4.15E-5**	**4.27E-5 J**	**3.70E-4**	**1.53E-4**
PCB-002	mg/kg			**6.77E-5**	**1.12E-5**	**7.75E-6**	**9.22E-5**	**2.39E-5**
PCB-003	mg/kg			**3.02E-4**	**3.16E-5**	**2.58E-5**	**6.35E-4**	**1.05E-4**
PCB-004/010	mg/kg			**1.75E-4**	**3.31E-5**	**2.43E-5 J**	**5.08E-4**	**3.38E-5**
PCB-005/008	mg/kg			**4.69E-4**	**6.11E-5**	**5.06E-5**	**4.50E-4**	**1.06E-4**
PCB-006	mg/kg			**9.30E-5**	**1.49E-5**	**1.24E-5 J**	**1.01E-4**	**2.87E-5**
PCB-007/009	mg/kg			< 1.20E-5 U	**1.02E-5**	**9.78E-6**	**6.64E-5**	**2.45E-5 J**
PCB-011	mg/kg			< 9.68E-6 U	**9.61E-6**	< 2.50E-6 U	< 9.59E-6 U	< 1.43E-5 U
PCB-012/013	mg/kg			< 1.06E-5 U	**1.66E-5**	< 5.00E-6 U	**1.38E-4**	**1.52E-5 J**
PCB-014	mg/kg			< 1.05E-5 U	< 2.82E-6 U	< 2.50E-6 U	< 1.05E-5 U	< 1.25E-5 U
PCB-015	mg/kg			**1.69E-3**	**1.40E-4**	**1.10E-4**	**3.62E-3**	**5.45E-5**
PCB-016/032	mg/kg			**6.87E-4**	**2.11E-5**	**2.60E-5**	**9.10E-3**	**5.30E-5**
PCB-017	mg/kg			**2.39E-4**	**1.40E-5**	**1.55E-5**	**3.47E-3**	**2.90E-5**
PCB-018	mg/kg			**7.82E-4**	**3.33E-5**	**4.49E-5**	**1.25E-2**	**7.51E-5**
PCB-019	mg/kg			**1.76E-4**	**4.13E-6**	**4.79E-6**	**4.29E-3**	**1.60E-5**
PCB-020/021/033	mg/kg			**8.63E-4**	**3.76E-5**	**3.81E-5**	**2.71E-3**	**4.66E-5**
PCB-022	mg/kg			**4.16E-4**	**2.19E-5**	**2.08E-5**	**1.46E-3**	**2.96E-5**
PCB-023	mg/kg			< 1.82E-5 U	< 2.23E-6 U	< 2.50E-6 U	< 1.72E-5 U	< 3.88E-6 U
PCB-024/027	mg/kg			**7.91E-5**	**3.04E-6**	**4.01E-6 J**	**2.15E-3**	**9.15E-6 J**
PCB-025	mg/kg			**8.37E-5**	**4.05E-6**	**3.68E-6**	**4.68E-4**	< 7.55E-6 U
PCB-026	mg/kg			**1.83E-4**	**9.67E-6**	**9.36E-6**	**2.14E-3**	**1.60E-5**
PCB-028	mg/kg			**1.23E-3**	**6.13E-5**	**5.79E-5**	**9.99E-3**	**9.16E-5**
PCB-029	mg/kg			< 1.89E-5 U	< 2.31E-6 U	< 2.50E-6 U	< 1.78E-5 U	< 3.89E-6 U
PCB-030	mg/kg			< 2.62E-6 U	< 6.61E-7 U	< 2.50E-6 U	**6.04E-6**	< 2.69E-6 U
PCB-031	mg/kg			**9.41E-4**	**5.21E-5**	**5.11E-5**	**8.24E-3**	**7.60E-5**
PCB-034	mg/kg			< 1.85E-5 U	< 2.27E-6 U	< 2.50E-6 U	< 1.74E-5 U	< 3.61E-6 U
PCB-035	mg/kg			< 1.73E-5 U	**5.79E-6**	**4.21E-6**	**1.36E-4**	< 4.29E-6 U
PCB-036	mg/kg			< 1.69E-5 U	< 2.13E-6 U	< 2.50E-6 U	< 1.56E-5 U	< 4.14E-6 U
PCB-037	mg/kg			**1.08E-3**	**9.66E-5**	**8.47E-5**	**6.02E-3**	**4.38E-5**
PCB-038	mg/kg			**2.88E-4**	< 2.17E-6 U	**2.03E-6 J**	**6.48E-4**	< 4.34E-6 U
PCB-039	mg/kg			< 1.80E-5 U	< 2.27E-6 U	**7.48E-7 J**	< 1.66E-5 U	< 4.27E-6 U
PCB-040	mg/kg			**1.78E-3**	**4.66E-5**	**7.32E-5**	**3.02E-2**	**1.79E-5**
PCB-041/064/071/072	mg/kg			**4.91E-2**	**1.53E-4**	**3.08E-4**	**9.49E-2**	**1.25E-4**
PCB-042	mg/kg				**4.69E-5**			
PCB-042/059	mg/kg			**4.84E-3**		**7.75E-5**	**3.52E-2**	**4.37E-5**
PCB-043/049	mg/kg			**5.76E-2**	**2.71E-4**	**4.79E-4**	**1.60E-1**	**1.12E-4**
PCB-044	mg/kg			**3.53E-2**	**3.41E-4**	**8.23E-4**	**3.26E-1 J**	**1.65E-4**
PCB-045	mg/kg			**1.77E-3**	**4.81E-5**	**5.98E-5**	**1.76E-2**	**2.96E-5**
PCB-046	mg/kg			**6.69E-4**	**2.83E-5**	**3.58E-5 J**	**7.65E-3**	**1.38E-5**
PCB-047	mg/kg			**1.34E-2**	**4.17E-5**	**6.52E-5**	**3.30E-2**	**3.61E-5**
PCB-048/075	mg/kg			**1.43E-3**	**1.58E-5**	**2.87E-5**	**1.04E-2**	**1.70E-5 J**
PCB-050	mg/kg			**6.38E-6**	< 3.89E-6 U	< 2.50E-6 U	**2.00E-4**	< 7.26E-6 U
PCB-051	mg/kg			**5.71E-4**	**1.32E-5**	**1.58E-5**	**6.15E-3**	**1.16E-5 J**
PCB-052/069	mg/kg			**3.09E-1**	**1.06E-3**	**2.10E-3**	**8.49E-1 J**	**3.03E-4**
PCB-053	mg/kg			**7.35E-3**	**7.69E-5**	**1.02E-4**	**2.61E-2**	**3.65E-5**
PCB-054	mg/kg			**2.02E-5**	**7.87E-7**	< 2.50E-6 U	**4.60E-4**	< 5.51E-6 U
PCB-055	mg/kg			**8.83E-3**	**4.59E-5**	< 2.50E-6 U	**7.05E-3**	**5.24E-6 J**
PCB-056/060	mg/kg			**8.42E-3**	**1.41E-4**	**2.41E-4**	**3.73E-2**	**6.91E-5**
PCB-057	mg/kg			**1.76E-4**	< 2.86E-6 U	**2.28E-6 J**	**3.00E-4**	< 4.47E-6 U
PCB-058	mg/kg			**7.94E-5**	< 2.84E-6 U	< 2.50E-6 U	**1.45E-4**	< 4.40E-6 U
PCB-061/070	mg/kg			**1.53E-1**	**5.94E-4**	**1.23E-3**	**2.97E-1**	**1.65E-4**
PCB-062	mg/kg			< 1.74E-5 U	< 3.29E-6 U	< 2.50E-6 U	< 1.73E-5 U	< 5.26E-6 U
PCB-063	mg/kg			**2.57E-4**	**1.06E-5**	**1.09E-5 J**	**1.26E-3**	**2.62E-6 J**
PCB-065	mg/kg			< 1.56E-5 U	< 2.94E-6 U	< 2.50E-6 U	< 1.55E-5 U	< 5.42E-6 U
PCB-066/076	mg/kg			**3.62E-2**	**1.78E-4**	**2.18E-4**	**9.94E-2**	**1.19E-4**
PCB-067	mg/kg			**2.03E-4**	**6.41E-6**	**3.84E-6**	**6.55E-4**	**2.97E-6 J**
PCB-068	mg/kg			**1.87E-4**	**4.95E-6**	**3.10E-6**	**3.45E-4**	< 4.44E-6 U
PCB-073	mg/kg			**2.72E-4**	**2.28E-6**	**1.38E-6 J**	**2.72E-4**	< 5.22E-6 U
PCB-074	mg/kg			**3.60E-3**	**9.38E-5**	**1.89E-4 J**	**2.72E-2**	**4.40E-5**
PCB-077	mg/kg			**3.41E-3**	**1.45E-4**	**1.58E-4**	**1.00E-2**	**2.33E-5**
PCB-078	mg/kg			< 1.79E-5 U	< 3.27E-6 U	< 2.50E-6 U	**2.66E-4**	< 4.34E-6 U
PCB-079	mg/kg			**2.09E-2**	**8.91E-5**	**9.51E-5**	**1.55E-2**	**5.56E-6 J**

Table I.6.B.2. Individual PCB Congeners and Co-Located Aroclors in Vadose Soil

South Park Marina Site, Seattle, Washington

			Location	SB-39	SB-40		SB-42	SS-01
			Sample Date	09/13/22	09/26/22	09/26/22	09/22/22	02/09/16
			Sample	SB-39-0-1	SB-40-0-1	SB-40-0-1-TIG	SB-42-0-1	SPM-SS-01-02092016
Analyte	Unit	Proposed RI CUL	Basis of CUL					
PCB-080	mg/kg			< 1.42E-5 U	< 3.08E-6 U	< 2.50E-6 U	< 1.21E-5 U	< 3.96E-6 U
PCB-081	mg/kg			**7.09E-3**	**2.19E-5**	**2.49E-5 J**	**9.52E-3**	**3.59E-6 J**
PCB-082	mg/kg			**1.64E-1**	**8.33E-4**	**1.30E-3**	**2.11E-1 J**	**1.17E-4**
PCB-083	mg/kg			< 8.33E-6 U	< 2.20E-6 U	< 2.50E-6 U	**1.57E-4**	< 4.16E-6 U
PCB-084/092	mg/kg			**6.53E-1**	**6.23E-3**	**8.77E-3**	**1.17E+0 J**	**4.83E-4**
PCB-085/116	mg/kg			**3.79E-1**	**1.53E-3**	**1.85E-3**	**2.68E-1**	**1.50E-4**
PCB-086	mg/kg			< 1.23E-5 U	< 3.24E-6 U	**1.44E-5 J**	**3.19E-3**	< 6.70E-6 U
PCB-087/117/125	mg/kg			**7.18E-1**	**3.67E-3**	**5.34E-3**	**8.97E-1 J**	**3.17E-4**
PCB-088/091	mg/kg			**2.93E-1**	**1.54E-3**	**1.77E-3**	**2.87E-1**	**1.67E-4**
PCB-089	mg/kg			**7.80E-3**	**6.77E-5**	**9.39E-5**	**1.25E-2**	**9.29E-6 J**
PCB-090/101	mg/kg			**1.88E+0 J**	**2.18E-2**	**3.30E-2**	**2.87E+0 J**	**9.43E-4**
PCB-093	mg/kg			**3.95E-2**	**3.75E-4**	< 2.50E-6 UJ	**5.41E-2**	< 5.68E-6 U
PCB-094	mg/kg			**5.81E-3**	**4.26E-5**	**4.41E-5**	**5.76E-3**	**6.23E-6 J**
PCB-095/098/102	mg/kg			**1.46E+0**	**2.29E-2**	**2.41E-2**	**1.94E+0 J**	**9.83E-4**
PCB-096	mg/kg			**6.39E-3**	**4.14E-5**	**5.79E-5**	**8.80E-3**	**9.43E-6 J**
PCB-097	mg/kg			**4.78E-1**	**1.89E-3**	**2.85E-3**	**6.20E-1 J**	**2.76E-4**
PCB-099	mg/kg			**9.84E-1 J**	**3.34E-3**	**4.45E-3**	**8.66E-1 J**	**3.65E-4**
PCB-100	mg/kg			**2.87E-3**	**1.36E-5**	**2.16E-5**	**3.33E-3**	< 4.47E-6 U
PCB-103	mg/kg			**5.05E-3**	**5.78E-5**	**7.18E-5**	**9.19E-3**	**6.17E-6 J**
PCB-104	mg/kg			**1.77E-5**	< 2.26E-6 U	< 2.50E-6 U	**1.34E-4**	< 3.41E-6 U
PCB-105	mg/kg			**4.41E-1**	**3.29E-3**	**4.15E-3**	**4.81E-1 J**	**1.82E-4**
PCB-106/118	mg/kg			**1.48E+0 J**	**7.53E-3**	**9.80E-3**	**1.54E+0 J**	**5.71E-4**
PCB-107/109	mg/kg			**8.04E-2**	**4.47E-4**	**6.83E-4**	**6.12E-2**	**3.42E-5**
PCB-108/112	mg/kg			**6.07E-2**	**2.54E-4**	**3.55E-4**	**8.89E-2**	**4.47E-5**
PCB-110	mg/kg			**2.63E+0 J**	**2.33E-2**	**2.67E-2**	**2.86E+0 J**	**1.39E-3**
PCB-111/115	mg/kg			**1.83E-2**	**7.76E-5**	**8.86E-5**	**2.76E-2**	**1.14E-5 J**
PCB-113	mg/kg			**9.34E-3**	< 1.91E-6 U	**2.55E-5 J**	**3.35E-3**	< 4.24E-6 U
PCB-114	mg/kg			**9.92E-3**	**3.84E-5**	**5.95E-5**	**1.41E-2**	**7.99E-6 J**
PCB-119	mg/kg			**3.21E-2**	**4.22E-5**	**6.26E-5**	**2.36E-2**	**1.84E-5**
PCB-120	mg/kg			**1.89E-3**	< 1.91E-6 U	**1.76E-4**	< 9.97E-6 U	< 3.48E-6 U
PCB-121	mg/kg			**1.11E-3**	< 2.22E-6 U	< 2.50E-6 UJ	< 1.20E-5 U	< 3.43E-6 U
PCB-122	mg/kg			**2.72E-2**	**1.28E-4**	**1.28E-4**	**2.18E-2**	**5.27E-6 J**
PCB-123	mg/kg			**3.72E-2**	**1.45E-4**	**1.46E-4 J**	**2.31E-2**	**1.33E-5**
PCB-124	mg/kg			**8.72E-2**	**4.86E-4**	**9.03E-4**	**9.14E-2**	**4.20E-5**
PCB-126	mg/kg			**7.01E-3**	**3.50E-4**	**3.17E-4**	**9.76E-3**	**7.22E-6 J**
PCB-127	mg/kg			< 2.44E-5 U	< 3.07E-6 U	< 2.50E-6 U	< 2.51E-5 U	< 2.18E-6 U
PCB-128/162	mg/kg			**4.04E-1**	**8.28E-3**	**9.06E-3**	**4.95E-1 J**	**2.06E-4**
PCB-129	mg/kg			**1.22E-1**	**2.02E-3**	**2.60E-3**	**1.70E-1**	**6.49E-5**
PCB-130	mg/kg			**1.43E-1**	**5.25E-3**	**6.37E-3**	**1.98E-1 J**	**1.06E-4**
PCB-131	mg/kg							< 7.67E-6 U
PCB-131/133	mg/kg			**5.79E-2**	**1.90E-3**	**2.56E-3**	**9.65E-2**	
PCB-132/161	mg/kg			**5.73E-1**	**2.78E-2**	**3.41E-2**	**1.01E+0 J**	**4.42E-4**
PCB-133/142	mg/kg							**4.01E-5**
PCB-134/143	mg/kg			**1.25E-1**	**4.43E-3**	**5.58E-3**	**2.09E-1**	**7.49E-5**
PCB-135	mg/kg			**1.90E-1**	**1.50E-2**	**1.63E-2 J**	**4.59E-1 J**	**1.88E-4**
PCB-136	mg/kg			**2.39E-1**	**1.63E-2**	**1.87E-2 J**	**6.40E-1 J**	**1.99E-4**
PCB-137	mg/kg			**1.63E-1**	**1.11E-3**	**1.11E-3**	**1.51E-1**	**6.46E-5**
PCB-138/163/164	mg/kg			**1.90E+0 J**	**1.25E-1**	**1.48E-1**	**3.37E+0 J**	**1.40E-3**
PCB-139/149	mg/kg			**1.31E+0 J**	**9.96E-2**	**1.17E-1 J**	**2.74E+0 J**	**1.25E-3**
PCB-140	mg/kg			**7.99E-3**	**3.23E-4**	**3.46E-4 J**	**9.60E-3**	< 7.17E-6 U
PCB-141	mg/kg			**3.00E-1**	**3.69E-2**	**4.18E-2**	**1.03E+0 J**	**2.89E-4**
PCB-142	mg/kg			**5.37E-4**	< 1.07E-5 U	< 2.50E-6 U	**5.95E-4**	
PCB-144	mg/kg			**7.01E-2**	**6.27E-3**	**8.65E-3 J**	**2.48E-1 J**	**7.16E-5**
PCB-145	mg/kg			**6.49E-4**	**9.70E-6**	**8.19E-6**	**7.87E-4**	< 4.31E-6 U
PCB-146/165	mg/kg			**2.20E-1**	**1.62E-2**	**1.92E-2**	**5.07E-1 J**	**1.96E-4**
PCB-147	mg/kg			**3.87E-2**	**5.00E-4**	**5.71E-4 J**	**4.99E-2**	**2.67E-5**
PCB-148	mg/kg			< 4.69E-6 U	**5.32E-5**	**4.01E-5**	**8.48E-4**	< 5.76E-6 U
PCB-150	mg/kg			**1.41E-3**	**1.09E-4**	**1.18E-4 J**	**2.13E-3**	< 1.84E-6 U
PCB-151	mg/kg			**2.55E-1**	**4.09E-2**	**4.15E-2 J**	**1.38E+0 J**	**3.09E-4**
PCB-152	mg/kg			**1.50E-3**	**2.55E-5**	**2.75E-5 J**	**2.00E-3**	< 4.03E-6 U
PCB-153	mg/kg			**1.48E+0 J**	**1.19E-1**	**1.53E-1**	**4.39E+0 J**	**1.18E-3**
PCB-154	mg/kg			**1.34E-2**	**6.70E-4**	**7.59E-4 J**	**1.63E-2**	**1.01E-5 J**
PCB-155	mg/kg			**6.23E-6**	**1.87E-6**	**2.06E-6 J**	**3.19E-5**	< 3.93E-6 U
PCB-156	mg/kg			**1.74E-1**	**5.61E-3**	**5.96E-3**	**2.33E-1 J**	**9.12E-5**
PCB-157	mg/kg			**6.98E-2**	**9.30E-4**	**1.08E-3**	**9.27E-2**	**2.99E-5**
PCB-158/160	mg/kg			**2.72E-1**	**9.56E-3**	**1.17E-2**	**4.50E-1 J**	**1.62E-4**
PCB-159	mg/kg			< 2.05E-5 U	< 6.25E-6 U	< 2.50E-6 U	< 3.70E-5 U	< 4.28E-6 U
PCB-166	mg/kg			**5.51E-3**	**4.76E-5**	**4.99E-5**	**1.17E-2**	< 4.58E-6 U
PCB-167	mg/kg			**9.96E-2**	**3.88E-3**	**4.19E-3**	**1.41E-1**	**5.37E-5**
PCB-168	mg/kg			**2.33E-3**	**6.53E-5**	< 2.50E-6 U	**3.80E-3**	< 4.78E-6 U
PCB-169	mg/kg			< 3.20E-5 U	**6.06E-5**	**5.72E-5 J**	**1.56E-4**	< 5.01E-6 U
PCB-170	mg/kg			**1.78E-1**	**5.30E-2**	**6.84E-2**	**1.42E+0 J**	**4.23E-4**
PCB-171	mg/kg			**5.12E-2**	**1.42E-2**	**1.93E-2**	**3.41E-1 J**	**1.09E-4**

Table I.6.B.2. Individual PCB Congeners and Co-Located Aroclors in Vadose Soil

South Park Marina Site, Seattle, Washington

			Location	SB-39	SB-40		SB-42	SS-01
			Sample Date	09/13/22	09/26/22	09/26/22	09/22/22	02/09/16
			Sample	SB-39-0-1	SB-40-0-1	SB-40-0-1-TIG	SB-42-0-1	SPM-SS-01-02092016
Analyte	Unit	Proposed RI CUL	Basis of CUL					
PCB-172	mg/kg			**2.31E-2**	**8.16E-3**	**1.22E-2**	**2.24E-1 J**	**7.45E-5**
PCB-173	mg/kg			**4.78E-3**	**1.06E-3**	**1.39E-3**	**2.44E-2**	**9.62E-6 J**
PCB-174	mg/kg			**1.35E-1**	**6.22E-2**	**8.72E-2**	**1.90E+0 J**	**5.25E-4**
PCB-175	mg/kg			**6.37E-3**	**2.45E-3**	**2.66E-3 J**	**9.21E-2**	**2.17E-5**
PCB-176	mg/kg			**2.06E-2**	**7.83E-3**	**9.26E-3 J**	**3.43E-1 J**	**6.52E-5**
PCB-177	mg/kg			**8.33E-2**	**3.62E-2**	**4.84E-2 J**	**9.50E-1 J**	**2.76E-4**
PCB-178	mg/kg			**2.06E-2**	**1.21E-2**	**1.46E-2 J**	**5.13E-1 J**	**9.98E-5**
PCB-179	mg/kg			**4.95E-2**	**2.66E-2**	**3.35E-2 J**	**1.34E+0 J**	**2.09E-4**
PCB-180	mg/kg			**3.31E-1**	**1.29E-1**	**1.79E-1**	**5.06E+0 J**	**1.05E-3**
PCB-181	mg/kg			**3.42E-3**	**1.89E-4**	< 2.50E-6 U	**2.84E-3**	< 6.00E-6 U
PCB-182/187	mg/kg			**1.32E-1**	**7.64E-2**	**8.62E-2 J**	**2.79E+0 J**	**6.40E-4**
PCB-183	mg/kg			**8.03E-2**	**3.18E-2**	**4.01E-2 J**	**1.33E+0 J**	**2.86E-4**
PCB-184	mg/kg			**1.12E-4**	**3.51E-5**	**4.08E-5 J**	**2.78E-4**	< 5.08E-6 U
PCB-185	mg/kg			**1.54E-2**	**6.52E-3**	**8.54E-3**	**3.30E-1 J**	**5.89E-5**
PCB-186	mg/kg			**6.55E-5**	< 4.43E-6 U	**3.55E-6**	**1.68E-4**	< 4.67E-6 U
PCB-188	mg/kg			**1.28E-4**	**7.32E-5**	**8.32E-5**	**5.08E-4**	< 4.47E-6 U
PCB-189	mg/kg			**8.42E-3**	**1.83E-3**	**2.23E-3**	**3.28E-2**	**1.69E-5**
PCB-190	mg/kg			**3.76E-2**	**1.26E-2**	**1.51E-2 J**	**3.91E-1 J**	**9.17E-5**
PCB-191	mg/kg			**7.91E-3**	**2.02E-3**	**2.77E-3**	**5.30E-2**	**1.73E-5**
PCB-192	mg/kg			< 1.04E-5 U	< 4.56E-6 U	< 2.50E-6 U	< 3.35E-5 U	< 4.66E-6 U
PCB-193	mg/kg			**1.52E-2**	**7.11E-3**	**9.00E-3**	**2.16E-1 J**	**4.35E-5**
PCB-194	mg/kg			**6.62E-2**	**3.06E-2**	**3.56E-2**	**1.89E+0 J**	**2.33E-4**
PCB-195	mg/kg			**1.96E-2**	**1.33E-2**	**1.75E-2 J**	**8.24E-1 J**	**9.95E-5**
PCB-196/203	mg/kg			**7.94E-2**	**3.23E-2**	**3.30E-2 J**	**1.88E+0 J**	**3.54E-4**
PCB-197	mg/kg			**3.20E-3**	**1.02E-3**	**1.20E-3 J**	**7.93E-2**	**9.27E-6 J**
PCB-198	mg/kg			**3.07E-3**	**1.32E-3**	**1.28E-3 J**	**1.00E-1**	**1.18E-5 J**
PCB-199	mg/kg			**5.98E-2**	**2.88E-2**	**3.06E-2 J**	**1.94E+0 J**	**3.51E-4**
PCB-200	mg/kg			**1.07E-2**	**3.39E-3**	**4.36E-3 J**	**3.35E-1 J**	**4.64E-5**
PCB-201	mg/kg			**1.02E-2**	**3.41E-3**	**4.16E-3 J**	**3.56E-1 J**	**3.83E-5**
PCB-202	mg/kg			**1.06E-2**	**4.24E-3**	**4.89E-3**	**4.78E-1 J**	**6.63E-5**
PCB-204	mg/kg			**1.98E-5**	< 9.92E-7 U	< 2.50E-6 U	< 1.33E-5 U	< 2.77E-6 U
PCB-205	mg/kg			**3.18E-3**	**1.44E-3**	**1.25E-3**	**8.16E-2**	**1.17E-5 J**
PCB-206	mg/kg			**3.48E-2**	**6.09E-3**	**6.34E-3**	**5.78E-1 J**	**1.40E-4**
PCB-207	mg/kg			**4.58E-3**	**7.67E-4**	**8.06E-4 J**	**9.75E-2**	**1.58E-5**
PCB-208	mg/kg			**7.33E-3**	**1.28E-3**	**1.29E-3 J**	**1.35E-1**	**4.27E-5**
PCB-209	mg/kg			**4.01E-3**	**1.14E-3**	**1.44E-3 J**	**9.89E-3**	**1.40E-4**
Total Decachlorobiphenyls	mg/kg					**1.44E-3**		**1.40E-4**
Total Dichlorobiphenyls	mg/kg			**2.42E-3**	**2.18E-4**	**2.07E-4**	**4.81E-3**	**2.62E-4**
Total Heptachlorobiphenyls	mg/kg			**1.25E+0**	**4.98E-1**	**6.40E-1**	**1.54E+1**	**4.02E-3**
Total Hexachlorobiphenyls	mg/kg			**7.94E+0**	**5.76E-1**	**6.50E-1**	**1.73E+1**	**6.45E-3 J**
Total Monochlorobiphenyls	mg/kg			**5.61E-4**	**8.43E-5**	**7.62E-5**	**1.10E-3**	**2.82E-4**
Total Nonachlorobiphenyls	mg/kg			**4.67E-2**	**8.14E-3**	**8.43E-3**	**8.11E-1**	**1.98E-4**
Total Octachlorobiphenyls	mg/kg			**2.66E-1**	**1.20E-1**	**1.34E-1**	**7.96E+0**	**1.22E-3**
Total Pentachlorobiphenyls	mg/kg			**1.15E+1**	**1.00E-1**	**1.27E-1**	**1.37E+1**	**6.16E-3**
Total Tetrachlorobiphenyls	mg/kg			**7.14E-1**	**3.45E-3**	**6.35E-3**	**2.10E+0**	**1.35E-3**
Total Trichlorobiphenyls	mg/kg			**6.96E-3**	**3.44E-4**	**3.68E-4**	**6.27E-2**	**4.86E-4 J**
Total PCB Congeners (ND = 0)	mg/kg	1.8E-4	SL-3, PQL Adj.	**2.25E+1 J**	**1.27E+0**	**1.57E+0 J**	**6.09E+1 J**	**2.06E-2 J**
Total PCB TEQ (ND = 0)	mg/kg	7.0E-7	SL-3, PQL Adj.	**7.28E-4**	**3.73E-5**	**3.40E-5 J**	**1.02E-3 J**	**7.37E-7 J**

Notes:

Bold = detected

Gray Shaded = Nondetect result has an RDL that exceeds the Proposed RI CUL

Blue Shaded = Detected result exceeded the Proposed RI CUL

Proposed RI CUL = Proposed Remedial Investigation Cleanup Level

mg/kg = milligrams per kilogram

U = Analyte not detected at or above the RDL shown

J = Result value estimated

UJ = Analyte not detected, and the RDL shown is an estimate

(ND = 0) = calculated using zero for nondetected components

TEQ = Toxic Equivalency

A = One or more of the nine common Aroclor groups (1016, 1221, 1232, 1242, 1248, 1254, 1260, 1262, and 1268) were not reported, and the Total PCB Aroclors (ND = 0) sum assumes the missing components were nondetect.

Total PCB Aroclors (ND = 0) are the sum of Aroclors available, with nondetects = 0, unless all Aroclors were not detected, in which case the Total PCB Aroclors concentration is shown as nondetect at the maximum RDL for any individual Aroclor.

RDL = Reported Detection Limit

Table I.6.B.2. Individual PCB Congeners and Co-Located Aroclors in Vadose Soil

South Park Marina Site, Seattle, Washington

			Location	SS-02	SS-03	SS-04	SS-05	SS-06
			Sample Date	02/09/16	02/09/16	02/10/16	02/10/16	02/10/16
			Sample	SPM-SS-02-02092016	SPM-SS-03-02092016	SPM-SS-04-02102016	SPM-SS-05-02102016	SPM-SS-06-02102016
Analyte	Unit	Proposed RI CUL	Basis of CUL					
Polychlorinated Biphenyl Aroclors								
Aroclor 1016	mg/kg			< 0.004 U	< 0.004 U	< 0.08 U	< 0.08 U	< 0.08 U
Aroclor 1221	mg/kg			< 0.004 U	< 0.004 U	< 0.08 U	< 0.08 U	< 0.08 U
Aroclor 1232	mg/kg			< 0.004 U	< 0.004 U	< 0.08 U	< 0.08 U	< 0.08 U
Aroclor 1242	mg/kg			< 0.004 U	< 0.004 U	< 0.08 U	< 0.08 U	< 0.08 U
Aroclor 1248	mg/kg			< 0.004 U	< 0.004 U	< 0.08 U	< 0.08 U	< 0.08 U
Aroclor 1254	mg/kg			< 0.004 U	< 0.004 U	< 0.08 U	< 0.08 U	< 0.08 U
Aroclor 1260	mg/kg			**0.014**	**0.094**	**0.21**	**0.82**	< 0.08 U
Aroclor 1262	mg/kg			< 0.004 U	< 0.004 U	< 0.08 U	< 0.08 U	< 0.08 U
Aroclor 1268	mg/kg			< 0.004 U	< 0.004 U	< 0.08 U	< 0.08 U	< 0.08 U
Total PCB Aroclors (ND = 0)	mg/kg	0.036	SL-3, PQL Adj.	**0.014**	**0.094**	**0.21**	**0.82**	< 0.08 U
Polychlorinated Biphenyl Congeners								
PCB-001	mg/kg			**8.55E-5**	**6.20E-6 J**	**3.80E-6 J**	**1.57E-5**	< 3.09E-6 U
PCB-002	mg/kg			**1.33E-5**	**4.70E-6 J**	**4.30E-6 J**	**8.14E-6 J**	< 3.15E-6 U
PCB-003	mg/kg			**5.38E-5**	**1.63E-5**	**8.46E-6 J**	**2.76E-5**	**1.65E-6 J**
PCB-004/010	mg/kg			**5.00E-5**	< 2.00E-5 U	< 1.53E-5 U	< 1.68E-5 U	< 2.53E-5 U
PCB-005/008	mg/kg			**7.14E-5**	**2.51E-5**	< 1.00E-5 U	< 1.35E-5 U	< 2.06E-5 U
PCB-006	mg/kg			**1.97E-5**	< 1.63E-5 U	< 1.23E-5 U	< 1.38E-5 U	< 2.11E-5 U
PCB-007/009	mg/kg			**1.36E-5 J**	< 1.61E-5 U	< 1.21E-5 U	< 1.37E-5 U	< 2.08E-5 U
PCB-011	mg/kg			< 9.10E-6 U	< 1.62E-5 U	**9.10E-6 J**	< 1.41E-5 U	< 2.03E-5 U
PCB-012/013	mg/kg			**1.46E-5 J**	**1.86E-5 J**	< 1.67E-5 U	< 1.43E-5 U	< 2.06E-5 U
PCB-014	mg/kg			< 7.95E-6 U	< 1.42E-5 U	< 1.01E-5 U	< 1.23E-5 U	< 1.77E-5 U
PCB-015	mg/kg			**1.28E-4**	**2.72E-4**	**2.18E-5**	**6.96E-5**	< 1.81E-5 U
PCB-016/032	mg/kg			**2.39E-4**	**5.88E-5**	**9.83E-6 J**	**1.93E-5 J**	< 1.77E-6 U
PCB-017	mg/kg			**1.13E-4**	**2.17E-5**	**5.52E-6 J**	**8.49E-6 J**	**1.51E-6 J**
PCB-018	mg/kg			**2.73E-4**	**6.29E-5**	**1.37E-5**	**2.93E-5**	**2.03E-6 J**
PCB-019	mg/kg			**5.31E-5**	**8.25E-6 J**	< 2.50E-6 U	< 2.83E-6 U	< 2.14E-6 U
PCB-020/021/033	mg/kg			**1.11E-4**	**3.50E-5 J**	**1.30E-5 J**	**2.41E-5 J**	< 2.45E-6 U
PCB-022	mg/kg			**1.55E-4**	**3.10E-5**	**7.91E-6 J**	**1.37E-5**	< 1.43E-6 U
PCB-023	mg/kg			< 3.32E-6 U	< 3.38E-6 U	< 1.45E-6 U	< 1.66E-6 U	< 1.75E-6 U
PCB-024/027	mg/kg			**3.68E-5**	**1.03E-5 J**	< 1.65E-6 U	**2.74E-6 J**	< 1.42E-6 U
PCB-025	mg/kg			**3.20E-5**	**8.11E-6 J**	< 1.81E-6 U	**3.10E-6 J**	< 1.93E-6 U
PCB-026	mg/kg			**6.89E-5**	**1.68E-5**	**3.46E-6 J**	**5.35E-6 J**	< 1.72E-6 U
PCB-028	mg/kg			**4.77E-4**	**1.15E-4**	**2.06E-5**	**3.37E-5**	**3.34E-6 J**
PCB-029	mg/kg			< 3.32E-6 U	< 3.38E-6 U	< 1.45E-6 U	< 1.66E-6 U	< 1.75E-6 U
PCB-030	mg/kg			< 2.78E-6 U	< 2.24E-6 U	< 1.58E-6 U	< 1.37E-6 U	< 1.35E-6 U
PCB-031	mg/kg			**2.47E-4**	**9.46E-5**	**1.53E-5**	**3.47E-5**	**3.68E-6 J**
PCB-034	mg/kg			< 3.09E-6 U	< 3.14E-6 U	< 1.35E-6 U	< 1.55E-6 U	< 1.63E-6 U
PCB-035	mg/kg			**9.34E-6 J**	**6.25E-6 J**	**2.21E-6 J**	**2.63E-6 J**	< 1.79E-6 U
PCB-036	mg/kg			< 3.13E-6 U	< 3.35E-6 U	< 1.32E-6 U	< 1.49E-6 U	< 1.73E-6 U
PCB-037	mg/kg			**1.93E-4**	**1.75E-4**	**2.30E-5**	**4.91E-5**	**4.12E-6 J**
PCB-038	mg/kg			**2.63E-6 J**	< 3.50E-6 U	< 1.39E-6 U	< 1.02E-6 U	< 1.81E-6 U
PCB-039	mg/kg			< 3.22E-6 U	< 3.45E-6 U	< 1.37E-6 U	< 1.54E-6 U	< 1.78E-6 U
PCB-040	mg/kg			**9.46E-5**	**2.53E-5**	**4.81E-6 J**	**3.71E-5**	**2.21E-6 J**
PCB-041/064/071/072	mg/kg			**4.24E-4**	**2.54E-4**	**2.36E-5 J**	**1.36E-4**	**6.44E-5**
PCB-042	mg/kg							
PCB-042/059	mg/kg			**1.72E-4**	**6.82E-5**	**9.96E-6 J**	**4.83E-5**	**4.54E-6 J**
PCB-043/049	mg/kg			**3.80E-4**	**1.30E-4**	**2.97E-5**	**1.13E-4**	**1.22E-5 J**
PCB-044	mg/kg			**5.56E-4**	**1.85E-4**	**3.44E-5**	**2.13E-4**	**1.82E-5**
PCB-045	mg/kg			**9.66E-5**	**3.18E-5**	**4.71E-6 J**	**2.85E-5**	< 1.90E-6 U
PCB-046	mg/kg			**4.01E-5**	**1.15E-5 J**	**2.01E-6 J**	**1.36E-5**	< 2.26E-6 U
PCB-047	mg/kg			**1.29E-4**	**5.95E-5**	**5.73E-6 J**	**3.28E-5**	**5.85E-6 J**
PCB-048/075	mg/kg			**6.16E-5**	**1.99E-5 J**	**3.34E-6 J**	**1.74E-5 J**	**2.79E-6 J**
PCB-050	mg/kg			**2.22E-6 J**	< 6.31E-6 U	< 2.55E-6 U	< 3.07E-6 U	< 2.15E-6 U
PCB-051	mg/kg			**2.87E-5**	**6.63E-6 J**	< 2.32E-6 U	**8.17E-6 J**	< 1.85E-6 U
PCB-052/069	mg/kg			**7.19E-4**	**2.29E-4**	**7.17E-5**	**3.36E-4**	**2.78E-5**
PCB-053	mg/kg			**9.40E-5**	**2.86E-5**	< 3.21E-6 U	**3.64E-5**	**2.40E-6 J**
PCB-054	mg/kg			**3.79E-6 J**	< 4.79E-6 U	< 1.94E-6 U	< 2.34E-6 U	< 1.64E-6 U
PCB-055	mg/kg			< 8.61E-6 U	**6.20E-6 J**	< 4.24E-6 U	**1.34E-5**	< 1.24E-6 U
PCB-056/060	mg/kg			**2.38E-4**	**1.98E-4**	**2.85E-5**	**1.58E-4**	**4.40E-5**
PCB-057	mg/kg			< 4.03E-6 U	< 4.30E-6 U	< 1.90E-6 U	< 2.22E-6 U	< 1.45E-6 U
PCB-058	mg/kg			< 3.97E-6 U	< 4.23E-6 U	< 1.87E-6 U	**1.04E-6 J**	< 1.43E-6 U
PCB-061/070	mg/kg			**4.85E-4**	**3.09E-4**	**7.34E-5**	**3.66E-4**	**8.28E-5**
PCB-062	mg/kg			< 4.42E-6 U	< 4.34E-6 U	< 1.99E-6 U	< 2.30E-6 U	< 1.44E-6 U
PCB-063	mg/kg			**1.08E-5 J**	**6.83E-6 J**	< 1.83E-6 U	**5.61E-6 J**	**2.51E-6 J**
PCB-065	mg/kg			< 4.55E-6 U	< 4.48E-6 U	< 2.05E-6 U	< 2.37E-6 U	< 1.49E-6 U
PCB-066/076	mg/kg			**3.83E-4**	**3.37E-4**	**4.00E-5**	**2.00E-4**	**5.17E-5**
PCB-067	mg/kg			**1.40E-5**	**5.62E-6 J**	< 1.95E-6 U	**3.41E-6 J**	< 1.49E-6 U
PCB-068	mg/kg			< 3.72E-6 U	< 3.66E-6 U	< 1.68E-6 U	< 1.94E-6 U	< 1.22E-6 U
PCB-073	mg/kg			< 4.24E-6 U	< 4.72E-6 U	< 1.91E-6 U	< 2.24E-6 U	< 1.52E-6 U
PCB-074	mg/kg			**1.31E-4**	**8.59E-5**	**1.47E-5**	**6.92E-5**	**1.49E-5**
PCB-077	mg/kg			**5.44E-5**	**1.13E-4**	**3.02E-5**	**6.27E-5**	**9.88E-6 J**
PCB-078	mg/kg			< 4.05E-6 U	< 3.79E-6 U	< 1.82E-6 U	< 2.03E-6 U	< 1.39E-6 U
PCB-079	mg/kg			**1.04E-5 J**	**1.19E-5 J**	**1.10E-5 J**	**2.07E-5**	**2.09E-6 J**

Table I.6.B.2. Individual PCB Congeners and Co-Located Aroclors in Vadose Soil

South Park Marina Site, Seattle, Washington

			Location	SS-02	SS-03	SS-04	SS-05	SS-06
			Sample Date	02/09/16	02/09/16	02/10/16	02/10/16	02/10/16
			Sample	SPM-SS-02-02092016	SPM-SS-03-02092016	SPM-SS-04-02102016	SPM-SS-05-02102016	SPM-SS-06-02102016
Analyte	Unit	Proposed RI CUL	Basis of CUL					
PCB-080	mg/kg			< 3.42E-6 U	< 3.55E-6 U	< 1.50E-6 U	< 1.77E-6 U	< 1.15E-6 U
PCB-081	mg/kg			**5.09E-6 J**	**3.75E-6 J**	**5.63E-6 J**	**7.30E-6 J**	< 1.04E-6 U
PCB-082	mg/kg			**1.68E-4**	**9.34E-5**	**1.04E-4**	**2.54E-4**	**1.79E-5**
PCB-083	mg/kg			< 3.47E-6 U	< 4.43E-6 U	< 2.39E-6 U	< 2.44E-6 U	< 3.42E-6 U
PCB-084/092	mg/kg			**6.27E-4**	**2.95E-4**	**5.86E-4**	**2.15E-3**	**6.26E-5**
PCB-085/116	mg/kg			**2.24E-4**	**3.57E-4**	**1.34E-4**	**3.18E-4**	**4.72E-5**
PCB-086	mg/kg			< 5.58E-6 U	< 7.12E-6 U	**2.79E-6 J**	< 3.93E-6 U	< 5.50E-6 U
PCB-087/117/125	mg/kg			**4.84E-4**	**2.77E-4**	**3.57E-4**	**8.99E-4**	**5.67E-5**
PCB-088/091	mg/kg			**2.01E-4**	**1.39E-4**	**1.41E-4**	**3.98E-4**	**3.94E-5**
PCB-089	mg/kg			**1.48E-5**	**6.80E-6 J**	**1.06E-5 J**	**2.44E-5**	< 5.43E-6 U
PCB-090/101	mg/kg			**1.45E-3**	**6.35E-4**	**2.57E-3**	**8.05E-3**	**1.54E-4**
PCB-093	mg/kg			< 1.11E-5 U	< 6.76E-6 U	< 3.81E-6 U	< 3.90E-6 U	< 5.62E-6 U
PCB-094	mg/kg			**6.82E-6 J**	**4.81E-6 J**	**3.73E-6 J**	< 1.39E-5 U	< 5.28E-6 U
PCB-095/098/102	mg/kg			**1.28E-3**	**5.15E-4**	**1.98E-3**	**7.20E-3**	**1.34E-4**
PCB-096	mg/kg			**1.07E-5 J**	**9.47E-6 J**	**6.04E-6 J**	**2.25E-5**	< 1.21E-6 U
PCB-097	mg/kg			**3.84E-4**	**1.67E-4**	**1.96E-4**	**5.52E-4**	**3.87E-5**
PCB-099	mg/kg			**5.52E-4**	**4.37E-4**	**2.96E-4**	**8.99E-4**	**6.83E-5**
PCB-100	mg/kg			< 8.66E-6 U	< 5.50E-6 U	< 2.10E-6 U	**7.52E-6 J**	< 4.71E-6 U
PCB-103	mg/kg			< 7.02E-6 U	< 4.21E-6 U	**8.56E-6 J**	**1.85E-5**	< 4.69E-6 U
PCB-104	mg/kg			< 6.60E-6 U	< 4.19E-6 U	< 2.36E-6 U	< 2.44E-6 U	< 3.59E-6 U
PCB-105	mg/kg			**2.85E-4**	**3.75E-4**	**2.73E-4**	**5.35E-4**	**5.07E-5**
PCB-106/118	mg/kg			**8.66E-4**	**1.02E-3**	**1.06E-3**	**2.37E-3**	**1.35E-4**
PCB-107/109	mg/kg			**6.01E-5**	**9.62E-5**	**1.23E-4**	**1.19E-4**	**1.39E-5 J**
PCB-108/112	mg/kg			**6.35E-5**	**3.09E-5**	**2.66E-5**	**8.78E-5**	**7.51E-6 J**
PCB-110	mg/kg			**1.67E-3**	**2.26E-3**	**2.45E-3**	**7.50E-3**	**4.34E-4**
PCB-111/115	mg/kg			**1.86E-5 J**	**3.70E-5**	**8.65E-6 J**	**2.26E-5 J**	**6.34E-6 J**
PCB-113	mg/kg			< 3.88E-6 U	< 4.75E-6 U	**9.65E-6 J**	< 2.67E-6 U	< 4.03E-6 U
PCB-114	mg/kg			**1.30E-5**	**1.78E-5**	**6.65E-6 J**	**4.74E-5**	**2.53E-6 J**
PCB-119	mg/kg			< 1.64E-5 U	**3.52E-5**	**6.85E-6 J**	**2.52E-5**	**5.99E-6 J**
PCB-120	mg/kg			**4.02E-6 J**	**1.22E-5 J**	**3.08E-5**	**8.38E-5**	< 2.86E-6 U
PCB-121	mg/kg			< 6.72E-6 U	< 4.08E-6 U	< 2.30E-6 U	< 2.35E-6 U	< 3.39E-6 U
PCB-122	mg/kg			**1.19E-5 J**	**2.87E-5**	**5.23E-6 J**	**2.84E-5**	**2.82E-6 J**
PCB-123	mg/kg			**1.86E-5**	**4.52E-5**	**1.56E-5**	**4.59E-5**	**5.21E-6 J**
PCB-124	mg/kg			**5.21E-5**	**1.22E-4**	**1.64E-4**	**4.08E-4**	**1.18E-5 J**
PCB-126	mg/kg			**8.59E-6 J**	**2.35E-5**	**6.95E-5**	**5.69E-5**	**5.10E-6 J**
PCB-127	mg/kg			< 6.00E-6 U	< 5.40E-6 U	< 2.34E-6 U	< 3.57E-6 U	< 3.28E-6 U
PCB-128/162	mg/kg			**2.85E-4**	**9.15E-4**	**1.32E-3**	**3.17E-3**	**1.98E-4**
PCB-129	mg/kg			**9.33E-5**	**1.59E-4**	**2.96E-4**	**7.22E-4**	**3.90E-5**
PCB-130	mg/kg			**1.22E-4**	**4.38E-4**	**9.95E-4**	**2.21E-3**	**9.39E-5**
PCB-131	mg/kg			< 9.54E-6 U	< 8.11E-6 U	< 3.36E-6 U	< 1.07E-5 U	< 3.15E-6 U
PCB-131/133	mg/kg							
PCB-132/161	mg/kg			**5.80E-4**	**1.47E-3**	**4.60E-3**	**1.07E-2**	**3.05E-4**
PCB-133/142	mg/kg			**5.52E-5**	**1.41E-4**	**3.42E-4**	**8.07E-4**	**3.05E-5**
PCB-134/143	mg/kg			**1.06E-4**	**2.32E-4**	**5.96E-4**	**1.78E-3**	**4.25E-5**
PCB-135	mg/kg			**2.41E-4**	**1.08E-3**	**2.38E-3**	**7.09E-3**	**1.56E-4**
PCB-136	mg/kg			**2.49E-4**	**8.06E-4**	**1.89E-3**	**7.44E-3**	**1.14E-4**
PCB-137	mg/kg			**9.45E-5**	**2.33E-4**	**1.20E-4**	**2.73E-4**	**4.55E-5**
PCB-138/163/164	mg/kg			**1.92E-3**	**9.33E-3**	**1.83E-2**	**4.72E-2**	**1.19E-3**
PCB-139/149	mg/kg			**1.61E-3**	**6.67E-3**	**1.77E-2**	**5.23E-2**	**1.06E-3**
PCB-140	mg/kg			**1.21E-5 J**	**3.23E-5**	**8.94E-5**	**8.86E-5**	**7.82E-6 J**
PCB-141	mg/kg			**4.16E-4**	**1.66E-3**	**5.06E-3**	**1.41E-2**	**1.69E-4**
PCB-142	mg/kg							
PCB-144	mg/kg			**1.04E-4**	**1.95E-4**	**1.03E-3**	**3.07E-3**	**2.81E-5**
PCB-145	mg/kg			< 5.90E-6 U	< 3.84E-6 U	< 1.83E-6 U	**4.05E-6 J**	< 4.05E-6 U
PCB-146/165	mg/kg			**2.62E-4**	**1.34E-3**	**3.11E-3**	**6.72E-3**	**1.77E-4**
PCB-147	mg/kg			< 3.06E-5 U	**9.26E-5**	**8.03E-5**	**1.90E-4**	**2.22E-5**
PCB-148	mg/kg			< 7.89E-6 U	< 5.14E-6 U	**8.58E-6 J**	< 3.12E-6 U	< 3.63E-6 U
PCB-150	mg/kg			< 5.72E-6 U	**5.19E-6 J**	**2.99E-5**	**3.25E-5**	< 3.92E-6 U
PCB-151	mg/kg			**4.45E-4**	**2.13E-3**	**5.45E-3**	**1.52E-2**	**1.62E-4**
PCB-152	mg/kg			< 5.52E-6 U	**3.60E-6 J**	**6.51E-6 J**	**9.39E-6 J**	< 3.79E-6 U
PCB-153	mg/kg			**1.75E-3**	**8.14E-3**	**1.97E-2**	**5.32E-2 J**	**8.40E-4**
PCB-154	mg/kg			**1.34E-5**	**3.01E-5**	**1.62E-4**	**1.72E-4**	**9.99E-6 J**
PCB-155	mg/kg			< 5.38E-6 U	< 3.51E-6 U	< 2.51E-6 U	< 2.13E-6 U	< 2.48E-6 U
PCB-156	mg/kg			**1.40E-4**	**3.78E-4**	**9.70E-4**	**1.77E-3**	**4.90E-5**
PCB-157	mg/kg			**4.13E-5**	**1.25E-4**	**1.53E-4**	**3.02E-4**	**2.60E-5**
PCB-158/160	mg/kg			**2.17E-4**	**8.55E-4**	**1.58E-3**	**3.95E-3**	**1.35E-4**
PCB-159	mg/kg			< 5.77E-6 U	< 4.80E-6 U	**2.71E-4**	< 6.52E-6 U	< 1.97E-6 U
PCB-166	mg/kg			< 3.81E-6 U	**1.07E-5 J**	< 2.32E-6 U	< 6.98E-6 U	**2.99E-6 J**
PCB-167	mg/kg			**7.63E-5**	**2.84E-4**	**6.65E-4**	**1.36E-3**	**4.72E-5**
PCB-168	mg/kg			< 5.94E-6 U	< 5.06E-6 U	**1.82E-5**	< 6.68E-6 U	< 1.96E-6 U
PCB-169	mg/kg			< 6.06E-6 U	**3.81E-6 J**	**2.14E-5**	**1.43E-5**	**1.78E-6 J**
PCB-170	mg/kg			**5.78E-4**	**5.30E-3**	**1.02E-2**	**2.47E-2**	**6.24E-4**
PCB-171	mg/kg			**1.56E-4**	**1.33E-3**	**2.84E-3**	**6.86E-3**	**1.72E-4**

Table I.6.B.2. Individual PCB Congeners and Co-Located Aroclors in Vadose Soil

South Park Marina Site, Seattle, Washington

			Location	SS-02	SS-03	SS-04	SS-05	SS-06
			Sample Date	02/09/16	02/09/16	02/10/16	02/10/16	02/10/16
			Sample	SPM-SS-02-02092016	SPM-SS-03-02092016	SPM-SS-04-02102016	SPM-SS-05-02102016	SPM-SS-06-02102016
Analyte	Unit	Proposed RI CUL	Basis of CUL					
PCB-172	mg/kg			**1.02E-4**	**9.87E-4**	**2.10E-3**	**4.64E-3**	**1.38E-4**
PCB-173	mg/kg			**1.60E-5**	**1.08E-4**	**2.60E-4**	**6.68E-4**	**1.41E-5**
PCB-174	mg/kg			**6.77E-4**	**6.89E-3**	**1.36E-2**	**3.31E-2**	**7.76E-4**
PCB-175	mg/kg			**3.20E-5**	**2.50E-4**	**5.10E-4**	**1.25E-3**	**3.71E-5**
PCB-176	mg/kg			**8.01E-5**	**7.18E-4**	**1.26E-3**	**4.13E-3**	**8.19E-5**
PCB-177	mg/kg			**3.56E-4**	**3.64E-3**	**7.53E-3**	**1.79E-2**	**4.44E-4**
PCB-178	mg/kg			**1.14E-4**	**1.36E-3**	**2.20E-3**	**6.46E-3**	**1.67E-4**
PCB-179	mg/kg			**2.71E-4**	**2.85E-3**	**4.30E-3**	**1.37E-2**	**2.53E-4**
PCB-180	mg/kg			**1.37E-3**	**1.58E-2**	**2.68E-2**	**6.66E-2 J**	**1.86E-3**
PCB-181	mg/kg			< 4.83E-6 U	< 5.95E-6 U	< 2.20E-6 U	< 1.28E-6 U	< 2.10E-6 U
PCB-182/187	mg/kg			**7.27E-4**	**9.38E-3**	**1.33E-2**	**4.01E-2**	**1.17E-3**
PCB-183	mg/kg			**3.28E-4**	**3.79E-3**	**5.56E-3**	**1.74E-2**	**4.48E-4**
PCB-184	mg/kg			< 3.75E-6 U	**3.94E-6 J**	**1.14E-5 J**	**1.39E-5**	**1.50E-6 J**
PCB-185	mg/kg			**8.11E-5**	**7.92E-4**	**1.42E-3**	**3.57E-3**	**5.02E-5**
PCB-186	mg/kg			< 3.44E-6 U	< 4.94E-6 U	< 1.40E-6 U	< 1.02E-6 U	< 1.69E-6 U
PCB-188	mg/kg			< 3.29E-6 U	**8.04E-6 J**	**2.42E-5**	**2.24E-5**	**2.24E-6 J**
PCB-189	mg/kg			**2.23E-5**	**1.74E-4**	**3.78E-4**	**8.91E-4**	**2.37E-5**
PCB-190	mg/kg			**1.22E-4**	**1.24E-3**	**2.11E-3**	**5.14E-3**	**1.35E-4**
PCB-191	mg/kg			**2.42E-5**	**2.18E-4**	**4.38E-4**	**1.03E-3**	**2.67E-5**
PCB-192	mg/kg			< 3.75E-6 U	< 4.62E-6 U	< 1.71E-6 U	< 9.94E-7 U	< 1.63E-6 U
PCB-193	mg/kg			**6.43E-5**	**7.44E-4**	**1.29E-3**	**3.03E-3**	**8.40E-5**
PCB-194	mg/kg			**3.03E-4**	**3.87E-3**	**5.05E-3**	**1.31E-2**	**5.17E-4**
PCB-195	mg/kg			**1.24E-4**	**1.64E-3**	**2.23E-3**	**6.07E-3**	**1.91E-4**
PCB-196/203	mg/kg			**4.23E-4**	**6.01E-3**	**6.92E-3**	**2.12E-2**	**8.05E-4**
PCB-197	mg/kg			**1.54E-5**	**1.67E-4**	**2.10E-4**	**5.99E-4**	**2.11E-5**
PCB-198	mg/kg			**1.37E-5**	**2.29E-4**	**3.24E-4**	**9.60E-4**	**3.31E-5**
PCB-199	mg/kg			**3.92E-4**	**5.60E-3**	**6.80E-3**	**1.96E-2**	**7.72E-4**
PCB-200	mg/kg			**5.23E-5**	**6.71E-4**	**8.20E-4**	**2.42E-3**	**7.66E-5**
PCB-201	mg/kg			**5.26E-5**	**5.94E-4**	**7.73E-4**	**2.10E-3**	**8.94E-5**
PCB-202	mg/kg			**7.15E-5**	**8.52E-4**	**1.05E-3**	**2.98E-3**	**1.57E-4**
PCB-204	mg/kg			< 3.08E-6 U	< 6.89E-6 U	< 3.61E-6 U	**3.73E-6 J**	< 2.03E-6 U
PCB-205	mg/kg			< 1.43E-5 U	**2.05E-4**	**2.57E-4**	**6.98E-4**	**2.46E-5**
PCB-206	mg/kg			**1.79E-4**	**1.39E-3**	**1.46E-3**	**3.89E-3**	**5.96E-4**
PCB-207	mg/kg			**2.40E-5**	**1.67E-4**	**1.99E-4**	**5.57E-4**	**1.01E-4**
PCB-208	mg/kg			**4.76E-5**	**2.44E-4**	**3.09E-4**	**8.57E-4**	**2.20E-4**
PCB-209	mg/kg			**1.02E-4**	**3.16E-4**	**5.55E-4**	**1.19E-3**	**1.63E-3**
Total Decachlorobiphenyls	mg/kg			**1.02E-4**	**3.16E-4**	**5.55E-4**	**1.19E-3**	**1.63E-3**
Total Dichlorobiphenyls	mg/kg			**2.97E-4**	**3.16E-4**	**3.09E-5 J**	**6.96E-5**	< 2.53E-5 U
Total Heptachlorobiphenyls	mg/kg			**5.12E-3**	**5.56E-2**	**9.60E-2**	**2.51E-1**	**6.51E-3**
Total Hexachlorobiphenyls	mg/kg			**8.84E-3 J**	**3.68E-2**	**8.71E-2**	**2.34E-1**	**4.94E-3**
Total Monochlorobiphenyls	mg/kg			**1.53E-4**	**2.72E-5**	**1.66E-5**	**5.14E-5**	**1.65E-6 J**
Total Nonachlorobiphenyls	mg/kg			**2.51E-4**	**1.80E-3**	**1.96E-3**	**5.30E-3**	**9.17E-4**
Total Octachlorobiphenyls	mg/kg			**1.45E-3 J**	**1.98E-2**	**2.44E-2**	**6.97E-2**	**2.69E-3**
Total Pentachlorobiphenyls	mg/kg			**8.46E-3 J**	**7.03E-3**	**1.06E-2**	**3.21E-2**	**1.30E-3**
Total Tetrachlorobiphenyls	mg/kg			**4.13E-3 J**	**2.13E-3**	**3.93E-4 J**	**1.93E-3**	**3.48E-4 J**
Total Trichlorobiphenyls	mg/kg			**2.01E-3**	**6.44E-4**	**1.15E-4 J**	**2.26E-4**	**1.47E-5 J**
Total PCB Congeners (ND = 0)	mg/kg	1.8E-4	SL-3, PQL Adj.	**3.08E-2 J**	**1.24E-1 J**	**2.21E-1 J**	**5.96E-1 J**	**1.84E-2 J**
Total PCB TEQ (ND = 0)	mg/kg	7.0E-7	SL-3, PQL Adj.	**8.84E-7 J**	**2.52E-6 J**	**7.67E-6 J**	**6.28E-6 J**	**5.71E-7 J**

Notes:

Bold = detected

Gray Shaded = Nondetect result has an RDL that exceeds the Proposed RI CUL

Blue Shaded = Detected result exceeded the Proposed RI CUL

Proposed RI CUL = Proposed Remedial Investigation Cleanup Level

mg/kg = milligrams per kilogram

U = Analyte not detected at or above the RDL shown

J = Result value estimated

UJ = Analyte not detected, and the RDL shown is an estimate

(ND = 0) = calculated using zero for nondetected components

TEQ = Toxic Equivalency

A = One or more of the nine common Aroclor groups (1016, 1221, 1232, 1242, 1248, 1254, 1260, 1262, and 1268) were not reported, and the Total PCB Aroclors (ND = 0) sum assumes the missing components were nondetect.

Total PCB Aroclors (ND = 0) are the sum of Aroclors available, with nondetects = 0, unless all Aroclors were not detected, in which case the Total PCB Aroclors concentration is shown as nondetect at the maximum RDL for any individual Aroclor.

RDL = Reported Detection Limit

Table I.6.B.2. Individual PCB Congeners and Co-Located Aroclors in Vadose Soil

South Park Marina Site, Seattle, Washington

			Location	SS-07	SS-08	SS-09	SS-10	SS-11
			Sample Date	02/09/16	02/09/16	02/10/16	02/10/16	02/10/16
			Sample	SPM-SS-07-02092016	SPM-SS-08-02092016	SPM-SS-09-02102016	SPM-SS-10-02102016	SPM-SS-11-02102016
Analyte	Unit	Proposed RI CUL	Basis of CUL					
Polychlorinated Biphenyl Aroclors								
Aroclor 1016	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1221	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1232	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1242	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1248	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1254	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1260	mg/kg			**0.0048**	**0.0715**	**0.05**	< 0.004 U	**0.019**
Aroclor 1262	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1268	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
Total PCB Aroclors (ND = 0)	mg/kg	0.036	SL-3, PQL Adj.	**0.0048**	**0.0715**	**0.05**	< 0.004 U	**0.019**
Polychlorinated Biphenyl Congeners								
PCB-001	mg/kg			< 9.79E-7 U	< 6.08E-6 U	**8.15E-6 J**	< 1.42E-5 U	**4.31E-6 J**
PCB-002	mg/kg			**4.66E-7 J**	< 6.24E-6 U	**3.27E-6 J**	< 1.46E-5 U	< 4.62E-6 U
PCB-003	mg/kg			**1.01E-6 J**	< 6.22E-6 U	**6.72E-6 J**	< 1.45E-5 U	< 4.61E-6 U
PCB-004/010	mg/kg			< 3.22E-6 U	< 2.88E-5 U	< 2.94E-5 U	< 7.66E-5 U	< 2.11E-5 U
PCB-005/008	mg/kg			< 2.51E-6 U	< 2.41E-5 U	< 1.16E-5 U	< 5.99E-5 U	< 1.71E-5 U
PCB-006	mg/kg			< 2.58E-6 U	< 2.47E-5 U	< 2.33E-5 U	< 6.15E-5 U	< 1.76E-5 U
PCB-007/009	mg/kg			< 2.55E-6 U	< 2.44E-5 U	< 2.31E-5 U	< 6.08E-5 U	< 1.74E-5 U
PCB-011	mg/kg			**2.93E-6**	< 2.38E-5 U	< 2.20E-5 U	< 5.80E-5 U	< 1.73E-5 U
PCB-012/013	mg/kg			< 2.50E-6 U	< 2.41E-5 U	< 2.23E-5 U	< 5.88E-5 U	< 1.75E-5 U
PCB-014	mg/kg			< 2.15E-6 U	< 2.08E-5 U	< 1.92E-5 U	< 5.06E-5 U	< 1.51E-5 U
PCB-015	mg/kg			< 2.20E-6 U	< 2.12E-5 U	**1.21E-5 J**	< 5.17E-5 U	< 5.51E-6 U
PCB-016/032	mg/kg			**9.55E-7 J**	< 1.17E-5 U	**6.74E-6 J**	< 1.81E-6 U	< 3.92E-6 U
PCB-017	mg/kg			< 4.24E-7 U	< 5.09E-6 U	< 2.33E-6 U	< 1.98E-6 U	**2.85E-6 J**
PCB-018	mg/kg			**9.74E-7 J**	**1.55E-5**	**1.08E-5 J**	< 2.14E-6 U	**7.51E-6 J**
PCB-019	mg/kg			< 5.99E-7 U	< 3.60E-6 U	< 3.10E-6 U	< 2.22E-6 U	< 3.13E-6 U
PCB-020/021/033	mg/kg			**1.55E-6 J**	**1.07E-5**	**7.81E-6 J**	< 1.99E-6 U	**5.23E-6 J**
PCB-022	mg/kg			< 5.66E-7 U	**7.98E-6**	< 3.45E-6 U	< 1.98E-6 U	**3.81E-6 J**
PCB-023	mg/kg			< 3.52E-7 U	< 3.82E-6 U	< 1.55E-6 U	< 1.90E-6 U	< 1.39E-6 U
PCB-024/027	mg/kg			< 3.69E-7 U	< 2.36E-6 U	< 2.09E-6 U	< 1.46E-6 U	< 1.90E-6 U
PCB-025	mg/kg			< 2.09E-7 U	< 4.21E-6 U	< 1.70E-6 U	< 2.09E-6 U	< 1.53E-6 U
PCB-026	mg/kg			< 2.94E-7 U	< 2.92E-6 U	< 1.55E-6 U	< 1.86E-6 U	**1.17E-6 J**
PCB-028	mg/kg			**1.77E-6 J**	**1.52E-5**	**9.38E-6 J**	< 1.86E-6 U	**6.70E-6 J**
PCB-029	mg/kg			< 3.52E-7 U	< 3.82E-6 U	< 1.55E-6 U	< 1.90E-6 U	< 1.39E-6 U
PCB-030	mg/kg			< 3.79E-7 U	< 2.28E-6 U	< 1.96E-6 U	< 1.41E-6 U	< 1.98E-6 U
PCB-031	mg/kg			**1.89E-6 J**	**2.37E-5**	**1.03E-5 J**	< 1.84E-6 U	**8.20E-6 J**
PCB-034	mg/kg			< 3.27E-7 U	< 3.56E-6 U	< 1.44E-6 U	< 1.77E-6 U	< 1.29E-6 U
PCB-035	mg/kg			**4.41E-7 J**	< 4.03E-6 U	< 1.08E-6 U	< 1.85E-6 U	< 1.35E-6 U
PCB-036	mg/kg			< 3.24E-7 U	< 3.89E-6 U	< 1.54E-6 U	< 1.78E-6 U	< 1.31E-6 U
PCB-037	mg/kg			**2.25E-6 J**	**1.43E-5**	**1.21E-5 J**	**1.42E-6 J**	**6.96E-6 J**
PCB-038	mg/kg			< 3.39E-7 U	< 4.07E-6 U	< 1.61E-6 U	< 1.87E-6 U	< 1.37E-6 U
PCB-039	mg/kg			< 3.34E-7 U	< 4.01E-6 U	< 1.59E-6 U	< 1.84E-6 U	< 1.35E-6 U
PCB-040	mg/kg			**8.33E-7 J**	< 1.65E-5 U	**4.73E-6 J**	< 3.12E-6 U	**8.37E-6 J**
PCB-041/064/071/072	mg/kg			**3.63E-6 J**	**1.94E-4**	**2.07E-5 J**	**2.06E-6 J**	**3.23E-5 J**
PCB-042	mg/kg							
PCB-042/059	mg/kg			**1.24E-6 J**	**3.17E-5**	**6.70E-6 J**	< 2.17E-6 U	**1.19E-5 J**
PCB-043/049	mg/kg			< 3.12E-6 U	**2.22E-4**	**3.50E-5**	< 1.51E-6 U	**2.98E-5**
PCB-044	mg/kg			**5.68E-6**	**1.68E-4**	**5.11E-5**	< 3.74E-6 U	**5.66E-5**
PCB-045	mg/kg			< 7.19E-7 U	< 1.05E-5 U	**2.60E-6 J**	< 2.80E-6 U	**6.12E-6 J**
PCB-046	mg/kg			< 7.88E-7 U	< 4.32E-6 U	< 3.87E-6 U	< 3.07E-6 U	**4.12E-6 J**
PCB-047	mg/kg			**1.16E-6 J**	**4.70E-5**	**5.35E-6 J**	< 2.24E-6 U	**8.09E-6 J**
PCB-048/075	mg/kg			**5.45E-7 J**	< 1.49E-5 U	**2.74E-6 J**	< 2.02E-6 U	**4.52E-6 J**
PCB-050	mg/kg			< 7.68E-7 U	< 6.90E-6 U	< 2.83E-6 U	< 2.72E-6 U	< 2.64E-6 U
PCB-051	mg/kg			< 6.44E-7 U	< 3.43E-6 U	< 3.16E-6 U	< 2.51E-6 U	**2.51E-6 J**
PCB-052/069	mg/kg			**1.13E-5**	**7.04E-4**	**8.93E-5**	**8.04E-6 J**	**8.37E-5**
PCB-053	mg/kg			< 4.96E-7 U	< 2.47E-5 U	**4.59E-6 J**	< 2.57E-6 U	**6.75E-6 J**
PCB-054	mg/kg			< 5.84E-7 U	< 5.24E-6 U	< 2.15E-6 U	< 2.07E-6 U	< 2.01E-6 U
PCB-055	mg/kg			< 4.27E-7 U	**2.18E-5**	**3.20E-6 J**	< 1.79E-6 U	**4.48E-6 J**
PCB-056/060	mg/kg			**3.37E-6 J**	**9.51E-5**	**2.09E-5 J**	**1.88E-6 J**	**3.16E-5**
PCB-057	mg/kg			< 4.69E-7 U	< 4.71E-6 U	< 2.08E-6 U	< 1.93E-6 U	< 1.83E-6 U
PCB-058	mg/kg			< 4.62E-7 U	< 4.64E-6 U	< 2.05E-6 U	< 1.90E-6 U	< 1.80E-6 U
PCB-061/070	mg/kg			**1.03E-5**	**5.17E-4**	**7.08E-5**	**6.57E-6 J**	**7.82E-5**
PCB-062	mg/kg			< 5.23E-7 U	< 4.68E-6 U	< 2.17E-6 U	< 1.97E-6 U	< 1.97E-6 U
PCB-063	mg/kg			< 4.52E-7 U	< 4.53E-6 U	< 2.00E-6 U	< 1.86E-6 U	< 1.76E-6 U
PCB-065	mg/kg			< 5.40E-7 U	< 4.82E-6 U	< 2.24E-6 U	< 2.03E-6 U	< 2.03E-6 U
PCB-066/076	mg/kg			**4.94E-6**	**1.74E-4**	**3.10E-5**	**3.04E-6 J**	**4.33E-5**
PCB-067	mg/kg			< 4.82E-7 U	< 4.83E-6 U	< 2.13E-6 U	< 1.98E-6 U	< 1.88E-6 U
PCB-068	mg/kg			< 4.41E-7 U	< 3.94E-6 U	**6.99E-7 J**	< 1.66E-6 U	< 1.66E-6 U
PCB-073	mg/kg			< 5.30E-7 U	< 4.53E-6 U	< 2.07E-6 U	< 2.07E-6 U	< 1.96E-6 U
PCB-074	mg/kg			**2.37E-6 J**	< 6.10E-5 U	**1.50E-5**	**1.94E-6 J**	**1.93E-5**
PCB-077	mg/kg			**3.53E-6**	**3.75E-5**	**2.71E-5**	< 1.86E-6 U	**1.01E-5 J**
PCB-078	mg/kg			< 4.48E-7 U	< 4.33E-6 U	< 2.11E-6 U	< 2.04E-6 U	< 1.82E-6 U
PCB-079	mg/kg			**9.27E-7 J**	**4.54E-5**	**8.27E-6 J**	**1.70E-6 J**	**2.64E-6 J**

Table I.6.B.2. Individual PCB Congeners and Co-Located Aroclors in Vadose Soil

South Park Marina Site, Seattle, Washington

			Location	SS-07	SS-08	SS-09	SS-10	SS-11
			Sample Date	02/09/16	02/09/16	02/10/16	02/10/16	02/10/16
			Sample	SPM-SS-07-02092016	SPM-SS-08-02092016	SPM-SS-09-02102016	SPM-SS-10-02102016	SPM-SS-11-02102016
Analyte	Unit	Proposed RI CUL	Basis of CUL					
PCB-080	mg/kg			< 3.96E-7 U	< 3.84E-6 U	< 1.79E-6 U	< 1.66E-6 U	< 1.68E-6 U
PCB-081	mg/kg			< 4.08E-7 U	**1.22E-5**	**4.21E-6 J**	< 1.87E-6 U	**1.22E-6 J**
PCB-082	mg/kg			**4.78E-6**	**3.85E-4**	**6.39E-5**	**6.60E-6 J**	**4.60E-5**
PCB-083	mg/kg			< 6.21E-7 U	< 6.99E-6 U	< 3.63E-6 U	< 6.04E-6 U	< 4.23E-6 U
PCB-084/092	mg/kg			**1.73E-5**	**1.57E-3**	**2.70E-4**	**1.98E-5 J**	**2.51E-4**
PCB-085/116	mg/kg			**2.23E-5**	**9.36E-4**	**1.16E-4**	< 1.34E-5 U	**5.37E-5**
PCB-086	mg/kg			< 9.99E-7 U	< 1.12E-5 U	< 5.84E-6 U	< 9.72E-6 U	< 6.81E-6 U
PCB-087/117/125	mg/kg			**1.55E-5**	**1.63E-3**	**2.88E-4**	**1.45E-5 J**	**9.56E-5**
PCB-088/091	mg/kg			**8.30E-6**	**7.14E-4**	**7.47E-5**	**6.40E-6 J**	**1.29E-4**
PCB-089	mg/kg			< 9.28E-7 U	**1.75E-5**	< 5.11E-6 U	< 8.81E-6 U	< 6.01E-6 U
PCB-090/101	mg/kg			**3.89E-5**	**4.45E-3**	**1.03E-3**	**4.56E-5**	**2.40E-4**
PCB-093	mg/kg			< 9.84E-7 U	< 1.01E-5 U	< 5.52E-6 U	< 8.77E-6 U	< 6.17E-6 U
PCB-094	mg/kg			< 9.25E-7 U	< 2.42E-5 U	< 2.31E-6 U	< 8.24E-6 U	**3.75E-6 J**
PCB-095/098/102	mg/kg			**3.17E-5**	**3.74E-3**	**7.05E-4**	**4.06E-5**	**4.13E-4**
PCB-096	mg/kg			< 4.40E-7 U	**1.88E-5**	< 3.91E-6 U	< 6.09E-6 U	**4.30E-6 J**
PCB-097	mg/kg			**1.11E-5**	**1.05E-3**	**1.15E-4**	**1.08E-5 J**	**9.27E-5**
PCB-099	mg/kg			**2.50E-5**	**2.23E-3**	**2.54E-4**	**2.92E-5**	**9.02E-5**
PCB-100	mg/kg			< 7.94E-7 U	< 1.36E-5 U	< 4.43E-6 U	< 6.91E-6 U	< 5.01E-6 U
PCB-103	mg/kg			< 7.90E-7 U	**1.66E-5**	**4.03E-6 J**	< 6.87E-6 U	< 4.98E-6 U
PCB-104	mg/kg			< 6.05E-7 U	< 6.23E-6 U	< 3.38E-6 U	< 5.27E-6 U	< 3.82E-6 U
PCB-105	mg/kg			**2.16E-5**	**8.12E-4**	**1.84E-4**	**1.54E-5**	**8.15E-5**
PCB-106/118	mg/kg			**5.20E-5**	**3.11E-3**	**5.68E-4**	**4.16E-5**	**2.26E-4**
PCB-107/109	mg/kg			**6.97E-6**	**2.16E-4**	**5.25E-5**	**4.62E-6 J**	**1.65E-5 J**
PCB-108/112	mg/kg			**1.84E-6 J**	**1.49E-4**	**1.94E-5 J**	< 7.14E-6 U	**2.48E-5**
PCB-110	mg/kg			**1.35E-4**	**6.45E-3**	**9.19E-4**	**8.36E-5**	**1.15E-3**
PCB-111/115	mg/kg			**9.55E-7 J**	**7.29E-5**	**6.91E-6 J**	< 5.41E-6 U	**9.41E-6 J**
PCB-113	mg/kg			< 6.89E-7 U	< 7.37E-6 U	< 3.80E-6 U	< 6.55E-6 U	< 4.47E-6 U
PCB-114	mg/kg			**1.14E-6 J**	**3.51E-5**	**6.04E-6 J**	< 5.15E-6 U	**4.11E-6 J**
PCB-119	mg/kg			**1.33E-6 J**	**6.03E-5**	**3.99E-6 J**	< 5.35E-6 U	< 8.66E-6 U
PCB-120	mg/kg			**1.20E-6 J**	**8.40E-6**	**7.13E-6 J**	< 5.06E-6 U	< 3.54E-6 U
PCB-121	mg/kg			< 5.93E-7 U	< 6.09E-6 U	< 3.33E-6 U	< 5.29E-6 U	< 3.72E-6 U
PCB-122	mg/kg			**1.04E-6 J**	**4.71E-5**	**7.03E-6 J**	< 6.13E-6 U	**2.86E-6 J**
PCB-123	mg/kg			**2.21E-6 J**	**7.14E-5**	**1.35E-5**	< 1.29E-6 U	< 3.76E-6 U
PCB-124	mg/kg			**4.24E-6**	**1.98E-4**	**5.77E-5**	**5.60E-6 J**	**1.85E-5**
PCB-126	mg/kg			**2.58E-6**	**2.75E-5**	**1.61E-5**	**1.46E-6 J**	**5.43E-6 J**
PCB-127	mg/kg			< 7.93E-7 U	< 3.22E-6 U	< 5.52E-6 U	< 5.38E-6 U	< 3.01E-6 U
PCB-128/162	mg/kg			**8.41E-5**	**1.10E-3**	**3.65E-4**	**3.84E-5**	**3.43E-4**
PCB-129	mg/kg			**1.34E-5**	**3.02E-4**	**8.78E-5**	**6.22E-6 J**	**8.70E-5**
PCB-130	mg/kg			**2.63E-5**	**4.80E-4**	**2.25E-4**	**2.13E-5**	**1.56E-4**
PCB-131	mg/kg			< 1.32E-6 U	< 2.26E-6 U	< 8.18E-6 U	< 5.39E-6 U	< 5.56E-6 U
PCB-131/133	mg/kg							
PCB-132/161	mg/kg			**6.53E-5**	**1.80E-3**	**9.26E-4**	**6.20E-5**	**6.50E-4**
PCB-133/142	mg/kg			**9.24E-6**	**1.71E-4**	**8.41E-5**	**6.57E-6 J**	**5.88E-5**
PCB-134/143	mg/kg			**1.27E-5**	**3.35E-4**	**1.33E-4**	**9.02E-6 J**	**1.03E-4**
PCB-135	mg/kg			**5.25E-5**	**7.34E-4**	**5.34E-4**	**3.59E-5**	**2.63E-4**
PCB-136	mg/kg			**4.86E-5**	**7.48E-4**	**4.19E-4**	**2.43E-5**	**2.35E-4**
PCB-137	mg/kg			**2.27E-5**	**3.82E-4**	**6.16E-5**	**8.64E-6 J**	**7.56E-5**
PCB-138/163/164	mg/kg			**5.00E-4**	**6.35E-3**	**4.45E-3**	**3.61E-4**	**1.99E-3**
PCB-139/149	mg/kg			**3.34E-4**	**4.84E-3**	**3.80E-3**	**2.55E-4**	**1.74E-3**
PCB-140	mg/kg			**3.35E-6**	< 5.52E-5 U	**1.61E-5**	< 5.25E-6 U	**1.10E-5 J**
PCB-141	mg/kg			**1.86E-5**	**1.13E-3**	**1.10E-3**	**5.86E-5**	**2.96E-4**
PCB-142	mg/kg							
PCB-144	mg/kg			**2.95E-6**	**2.67E-4**	**1.86E-4**	**6.47E-6 J**	**5.95E-5**
PCB-145	mg/kg			< 8.80E-7 U	< 4.66E-6 U	< 2.82E-6 U	< 3.73E-6 U	< 3.07E-6 U
PCB-146/165	mg/kg			**6.96E-5**	**8.20E-4**	**6.59E-4**	**5.87E-5**	**2.90E-4**
PCB-147	mg/kg			**9.45E-6**	**1.44E-4**	**2.94E-5**	**2.07E-6 J**	**3.32E-5**
PCB-148	mg/kg			< 1.18E-6 U	< 6.23E-6 U	< 3.77E-6 U	< 4.99E-6 U	< 4.10E-6 U
PCB-150	mg/kg			< 8.53E-7 U	< 1.36E-5 U	**2.92E-6 J**	< 3.62E-6 U	**3.08E-6 J**
PCB-151	mg/kg			**1.77E-5**	**1.20E-3**	**1.23E-3**	**5.27E-5**	**3.30E-4**
PCB-152	mg/kg			**4.96E-7 J**	< 9.66E-6 U	< 2.64E-6 U	< 3.49E-6 U	< 2.87E-6 U
PCB-153	mg/kg			**3.25E-4**	**5.28E-3**	**4.80E-3**	**4.07E-4**	**1.24E-3**
PCB-154	mg/kg			**2.67E-6**	**5.37E-5**	**2.59E-5**	< 4.58E-6 U	**1.40E-5**
PCB-155	mg/kg			< 8.03E-7 U	< 4.25E-6 U	< 2.57E-6 U	< 3.41E-6 U	< 2.80E-6 U
PCB-156	mg/kg			**2.80E-5**	**5.57E-4**	**2.94E-4**	**2.24E-5**	**8.38E-5**
PCB-157	mg/kg			**1.07E-5**	**1.69E-4**	**4.90E-5**	**5.20E-6 J**	**3.41E-5**
PCB-158/160	mg/kg			**4.98E-5**	**7.56E-4**	**3.68E-4**	**3.14E-5**	**2.40E-4**
PCB-159	mg/kg			< 8.23E-7 U	< 4.55E-6 U	< 5.19E-6 U	**7.33E-6 J**	< 3.53E-6 U
PCB-166	mg/kg			**1.08E-6 J**	**3.64E-5**	< 5.56E-6 U	< 3.45E-6 U	**7.37E-6 J**
PCB-167	mg/kg			**1.68E-5**	**2.88E-4**	**1.60E-4**	**1.59E-5**	**6.63E-5**
PCB-168	mg/kg			< 8.20E-7 U	< 4.63E-6 U	< 5.10E-6 U	< 3.36E-6 U	< 3.46E-6 U
PCB-169	mg/kg			**1.05E-6 J**	< 3.44E-6 U	**4.70E-6 J**	< 3.73E-6 U	< 4.74E-6 U
PCB-170	mg/kg			**2.45E-4**	**1.38E-3**	**2.14E-3**	**1.68E-4**	**1.01E-3**
PCB-171	mg/kg			**5.93E-5**	**3.72E-4**	**5.56E-4**	**4.53E-5**	**2.77E-4**

Table I.6.B.2. Individual PCB Congeners and Co-Located Aroclors in Vadose Soil

South Park Marina Site, Seattle, Washington

			Location	SS-07	SS-08	SS-09	SS-10	SS-11
			Sample Date	02/09/16	02/09/16	02/10/16	02/10/16	02/10/16
			Sample	SPM-SS-07-02092016	SPM-SS-08-02092016	SPM-SS-09-02102016	SPM-SS-10-02102016	SPM-SS-11-02102016
Analyte	Unit	Proposed RI CUL	Basis of CUL					
PCB-172	mg/kg			**4.82E-5**	**2.49E-4**	**4.10E-4**	**3.42E-5**	**1.99E-4**
PCB-173	mg/kg			**4.77E-6**	**4.61E-5**	**5.32E-5**	< 4.63E-6 U	**2.86E-5**
PCB-174	mg/kg			**3.06E-4**	**1.81E-3**	**2.76E-3**	**2.26E-4**	**1.32E-3**
PCB-175	mg/kg			**1.04E-5**	**5.84E-5**	**8.94E-5**	< 6.29E-6 U	**4.40E-5**
PCB-176	mg/kg			**2.48E-5**	**1.82E-4**	**2.57E-4**	**2.09E-5**	**1.05E-4**
PCB-177	mg/kg			**1.71E-4**	**9.19E-4**	**1.55E-3**	**1.28E-4**	**6.99E-4**
PCB-178	mg/kg			**6.16E-5**	**3.35E-4**	**5.23E-4**	**5.61E-5**	**2.11E-4**
PCB-179	mg/kg			**1.12E-4**	**7.34E-4**	**1.01E-3**	**1.08E-4**	**4.27E-4**
PCB-180	mg/kg			**6.71E-4**	**3.64E-3**	**5.68E-3**	**4.88E-4**	**2.58E-3**
PCB-181	mg/kg			< 9.93E-7 U	< 5.26E-6 U	< 3.75E-6 U	< 3.79E-6 U	< 3.07E-6 U
PCB-182/187	mg/kg			**4.03E-4**	**2.36E-3**	**3.34E-3**	**3.74E-4**	**1.35E-3**
PCB-183	mg/kg			**1.34E-4**	**8.79E-4**	**1.29E-3**	**1.09E-4**	**5.62E-4**
PCB-184	mg/kg			**5.27E-7 J**	< 4.50E-6 U	**1.93E-6 J**	< 3.27E-6 U	< 1.35E-6 U
PCB-185	mg/kg			**9.73E-6**	**2.24E-4**	**3.08E-4**	**2.08E-5**	**1.07E-4**
PCB-186	mg/kg			< 6.94E-7 U	< 4.13E-6 U	< 2.77E-6 U	< 3.00E-6 U	< 2.00E-6 U
PCB-188	mg/kg			**1.09E-6 J**	< 2.22E-6 U	**4.70E-6 J**	< 2.88E-6 U	**3.80E-6 J**
PCB-189	mg/kg			**9.43E-6**	**5.76E-5**	**8.17E-5**	**6.66E-6 J**	**3.92E-5**
PCB-190	mg/kg			**5.57E-5**	**3.13E-4**	**4.73E-4**	**3.87E-5**	**1.98E-4**
PCB-191	mg/kg			**1.02E-5**	**5.44E-5**	**8.23E-5**	**5.49E-6 J**	**4.08E-5**
PCB-192	mg/kg			< 7.71E-7 U	< 4.08E-6 U	< 2.91E-6 U	< 2.94E-6 U	< 2.38E-6 U
PCB-193	mg/kg			**3.70E-5**	**1.73E-4**	**2.93E-4**	**2.52E-5**	**1.27E-4**
PCB-194	mg/kg			**1.79E-4**	**1.10E-3**	**1.31E-3**	**1.22E-4**	**6.66E-4**
PCB-195	mg/kg			**7.71E-5**	**4.11E-4**	**6.17E-4**	**5.04E-5**	**2.70E-4**
PCB-196/203	mg/kg			**2.80E-4**	**2.07E-3**	**1.91E-3**	**1.78E-4**	**8.74E-4**
PCB-197	mg/kg			**8.34E-6**	< 3.62E-5 U	**5.34E-5**	**4.78E-6 J**	**2.49E-5**
PCB-198	mg/kg			**1.13E-5**	**6.61E-5**	**9.43E-5**	**1.13E-5 J**	**3.71E-5**
PCB-199	mg/kg			**2.95E-4**	**2.06E-3**	**1.85E-3**	**2.22E-4**	**8.93E-4**
PCB-200	mg/kg			**3.26E-5**	**2.44E-4**	**2.23E-4**	**1.97E-5**	**1.11E-4**
PCB-201	mg/kg			**2.81E-5**	**2.24E-4**	**1.93E-4**	**2.29E-5**	**8.71E-5**
PCB-202	mg/kg			**5.26E-5**	**4.58E-4**	**3.43E-4**	**4.81E-5**	**1.75E-4**
PCB-204	mg/kg			< 1.22E-6 U	< 3.57E-6 U	< 3.58E-6 U	< 4.40E-6 U	< 3.33E-6 U
PCB-205	mg/kg			**1.07E-5**	**5.01E-5**	**6.89E-5**	**6.83E-6 J**	**3.43E-5**
PCB-206	mg/kg			**1.40E-4**	**1.32E-3**	**7.34E-4**	**1.73E-4**	**5.76E-4**
PCB-207	mg/kg			**1.58E-5**	**1.69E-4**	**8.77E-5**	**1.71E-5**	**5.70E-5**
PCB-208	mg/kg			**4.23E-5**	**3.26E-4**	**2.28E-4**	**6.79E-5**	**1.83E-4**
PCB-209	mg/kg			**1.18E-4**	**1.10E-3**	**5.46E-4**	**1.78E-4**	**5.09E-4**
Total Decachlorobiphenyls	mg/kg			**1.18E-4**	**1.10E-3**	**5.46E-4**	**1.78E-4**	**5.09E-4**
Total Dichlorobiphenyls	mg/kg			**2.93E-6**	< 2.88E-5 U	**1.21E-5 J**	< 7.66E-5 U	**5.51E-6 J**
Total Heptachlorobiphenyls	mg/kg			**2.37E-3**	**1.38E-2**	**2.09E-2**	**1.85E-3 J**	**9.33E-3**
Total Hexachlorobiphenyls	mg/kg			**1.73E-3**	**2.80E-2**	**2.00E-2**	**1.50E-3**	**8.41E-3**
Total Monochlorobiphenyls	mg/kg			**1.47E-6 J**	< 6.24E-6 U	**1.81E-5**	< 1.46E-5 U	**4.31E-6 J**
Total Nonachlorobiphenyls	mg/kg			**1.98E-4**	**1.82E-3**	**1.05E-3**	**2.58E-4**	**8.17E-4**
Total Octachlorobiphenyls	mg/kg			**9.75E-4**	< 4.37E-3 U	**6.66E-3**	**6.86E-4**	**3.17E-3**
Total Pentachlorobiphenyls	mg/kg			**4.07E-4**	**2.81E-2**	**4.78E-3 J**	**3.26E-4 J**	**2.96E-3 J**
Total Tetrachlorobiphenyls	mg/kg			**4.98E-5 J**	**2.33E-3**	**4.04E-4**	**2.52E-5 J**	**4.46E-4**
Total Trichlorobiphenyls	mg/kg			**9.84E-6 J**	**9.58E-5**	**5.70E-5 J**	**1.42E-6 J**	**4.24E-5 J**
Total PCB Congeners (ND = 0)	mg/kg	1.8E-4	SL-3, PQL Adj.	**5.86E-3 J**	**8.17E-2**	**5.44E-2 J**	**4.82E-3 J**	**2.57E-2 J**
Total PCB TEQ (ND = 0)	mg/kg	7.0E-7	SL-3, PQL Adj.	**2.93E-7 J**	**2.82E-6**	**1.78E-6 J**	**1.48E-7 J**	**5.54E-7 J**

Notes:

Bold = detected

Gray Shaded = Nondetect result has an RDL that exceeds the Proposed RI CUL

Blue Shaded = Detected result exceeded the Proposed RI CUL

Proposed RI CUL = Proposed Remedial Investigation Cleanup Level

mg/kg = milligrams per kilogram

U = Analyte not detected at or above the RDL shown

J = Result value estimated

UJ = Analyte not detected, and the RDL shown is an estimate

(ND = 0) = calculated using zero for nondetected components

TEQ = Toxic Equivalency

A = One or more of the nine common Aroclor groups (1016, 1221, 1232, 1242, 1248, 1254, 1260, 1262, and 1268) were not reported, and the Total PCB Aroclors (ND = 0) sum assumes the missing components were nondetect.

Total PCB Aroclors (ND = 0) are the sum of Aroclors available, with nondetects = 0, unless all Aroclors were not detected, in which case the Total PCB Aroclors concentration is shown as nondetect at the maximum RDL for any individual Aroclor.

RDL = Reported Detection Limit

Table I.6.B.2. Individual PCB Congeners and Co-Located Aroclors in Vadose Soil

South Park Marina Site, Seattle, Washington

			Location	SS-12	SS-13	SS-14	SS-15	SS-16
			Sample Date	02/09/16	02/10/16	02/10/16	02/09/16	02/09/16
			Sample	SPM-SS-12-02092016	SPM-SS-13-02102016	SPM-SS-14-02102016	SPM-SS-15-02102016	SPM-SS-16-02092016
Analyte	Unit	Proposed RI CUL	Basis of CUL					
Polychlorinated Biphenyl Aroclors								
Aroclor 1016	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1221	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1232	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1242	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1248	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1254	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1260	mg/kg			**0.017**	**0.061**	**0.027**	**0.052**	**0.36**
Aroclor 1262	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1268	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
Total PCB Aroclors (ND = 0)	mg/kg	0.036	SL-3, PQL Adj.	**0.017**	**0.061**	**0.027**	**0.052**	**0.36**
Polychlorinated Biphenyl Congeners								
PCB-001	mg/kg			< 6.50E-7 U	< 1.39E-7 U	**1.45E-6 J**	**5.47E-6 J**	**4.69E-6 J**
PCB-002	mg/kg			**4.29E-6 J**	< 1.40E-7 U	< 2.76E-6 U	**5.45E-6 J**	**2.01E-6 J**
PCB-003	mg/kg			< 3.82E-6 U	< 1.39E-7 U	**4.12E-6 J**	**8.58E-6 J**	**6.38E-6 J**
PCB-004/010	mg/kg			< 2.26E-6 U	< 3.21E-7 U	< 2.73E-5 U	< 2.43E-5 U	< 2.08E-6 U
PCB-005/008	mg/kg			< 1.73E-6 U	< 1.21E-6 U	< 2.18E-5 U	< 1.85E-5 U	**6.87E-6 J**
PCB-006	mg/kg			< 1.77E-6 U	< 1.24E-6 U	< 2.24E-5 U	< 1.90E-5 U	< 1.63E-6 U
PCB-007/009	mg/kg			< 1.75E-6 U	< 1.23E-6 U	< 2.21E-5 U	< 1.88E-5 U	< 1.61E-6 U
PCB-011	mg/kg			< 1.73E-6 U	< 1.19E-6 U	< 2.04E-5 U	**2.44E-5**	< 1.60E-6 U
PCB-012/013	mg/kg			< 1.75E-6 U	< 1.21E-6 U	< 2.07E-5 U	< 1.84E-5 U	< 1.62E-6 U
PCB-014	mg/kg			< 1.51E-6 U	< 1.04E-6 U	< 1.78E-5 U	< 1.58E-5 U	< 1.39E-6 U
PCB-015	mg/kg			< 1.54E-6 U	< 1.06E-6 U	< 1.82E-5 U	**1.87E-5**	**1.52E-5**
PCB-016/032	mg/kg			< 5.18E-7 U	**4.61E-6**	**3.87E-6 J**	**9.03E-6 J**	**4.94E-6 J**
PCB-017	mg/kg			< 5.68E-7 U	< 3.66E-6 U	**2.03E-6 J**	**5.06E-6 J**	< 1.66E-6 U
PCB-018	mg/kg			**1.82E-6 J**	**7.44E-6**	**6.17E-6 J**	**1.33E-5**	**8.08E-6 J**
PCB-019	mg/kg			< 6.93E-7 U	**1.15E-6**	< 2.05E-6 U	< 1.08E-6 U	**2.26E-6 J**
PCB-020/021/033	mg/kg			**1.65E-6 J**	**3.46E-6**	**5.45E-6 J**	**1.27E-5 J**	**5.97E-6 J**
PCB-022	mg/kg			< 1.09E-6 U	**2.22E-6**	**2.67E-6 J**	**7.90E-6 J**	**4.02E-6 J**
PCB-023	mg/kg			< 4.64E-7 U	< 1.13E-7 U	< 1.63E-6 U	< 1.79E-6 U	< 5.34E-7 U
PCB-024/027	mg/kg			< 4.18E-7 U	< 7.49E-7 U	< 1.34E-6 U	< 1.34E-6 U	< 4.63E-7 U
PCB-025	mg/kg			< 5.11E-7 U	< 5.64E-7 U	< 1.80E-6 U	**1.86E-6 J**	**9.10E-7 J**
PCB-026	mg/kg			< 4.53E-7 U	**8.88E-7**	< 1.17E-6 U	**3.37E-6 J**	**1.68E-6 J**
PCB-028	mg/kg			**2.01E-6 J**	**4.72E-6**	**6.71E-6 J**	**1.83E-5**	**1.04E-5 J**
PCB-029	mg/kg			< 4.64E-7 U	< 1.13E-7 U	< 1.64E-6 U	< 1.79E-6 U	< 5.34E-7 U
PCB-030	mg/kg			< 4.38E-7 U	< 1.08E-7 U	< 1.30E-6 U	< 1.35E-6 U	< 4.53E-7 U
PCB-031	mg/kg			**2.15E-6 J**	**4.80E-6**	**6.51E-6 J**	**2.05E-5**	**8.81E-6 J**
PCB-034	mg/kg			< 4.31E-7 U	< 1.05E-7 U	< 1.52E-6 U	< 1.66E-6 U	< 4.97E-7 U
PCB-035	mg/kg			< 4.98E-7 U	< 1.51E-7 U	< 1.70E-6 U	< 2.22E-6 U	< 5.50E-7 U
PCB-036	mg/kg			< 4.81E-7 U	< 1.15E-7 U	< 1.64E-6 U	< 1.79E-6 U	< 5.31E-7 U
PCB-037	mg/kg			< 2.01E-6 U	**4.03E-6**	**8.56E-6 J**	**2.59E-5**	**1.23E-5**
PCB-038	mg/kg			< 5.04E-7 U	< 1.20E-7 U	< 1.72E-6 U	< 1.87E-6 U	< 5.56E-7 U
PCB-039	mg/kg			< 4.96E-7 U	< 1.18E-7 U	< 1.69E-6 U	< 1.84E-6 U	< 5.48E-7 U
PCB-040	mg/kg			< 7.70E-7 U	**5.70E-6**	**5.22E-6 J**	**1.00E-5 J**	**1.42E-5**
PCB-041/064/071/072	mg/kg			**7.75E-6 J**	**2.46E-5**	**1.98E-5 J**	**4.03E-5 J**	**6.39E-5**
PCB-042	mg/kg							
PCB-042/059	mg/kg			< 1.65E-6 U	**6.83E-6**	**9.05E-6 J**	**1.57E-5 J**	**1.82E-5 J**
PCB-043/049	mg/kg			**4.52E-6 J**	**1.68E-5**	**3.88E-5**	**7.05E-5**	**7.70E-5**
PCB-044	mg/kg			**9.24E-6 J**	**2.91E-5**	**4.44E-5**	**1.08E-4**	**1.19E-4**
PCB-045	mg/kg			< 6.28E-7 U	**5.98E-6**	**5.58E-6 J**	**8.49E-6 J**	**1.49E-5**
PCB-046	mg/kg			< 6.89E-7 U	**3.20E-6**	**3.78E-6 J**	**3.99E-6 J**	**7.29E-6 J**
PCB-047	mg/kg			< 1.48E-6 U	**5.85E-6**	**5.26E-6 J**	**1.13E-5 J**	**1.35E-5**
PCB-048/075	mg/kg			< 4.98E-7 U	**2.82E-6**	< 1.22E-6 U	**5.94E-6 J**	**3.28E-6 J**
PCB-050	mg/kg			< 7.27E-7 U	< 1.53E-7 U	< 2.07E-6 U	< 3.35E-6 U	< 1.34E-6 U
PCB-051	mg/kg			< 5.62E-7 U	**1.71E-6**	**2.20E-6 J**	**3.00E-6 J**	**4.92E-6 J**
PCB-052/069	mg/kg			**1.74E-5 J**	**4.03E-5**	**7.67E-5**	**2.16E-4**	**2.61E-4**
PCB-053	mg/kg			< 5.74E-7 U	**6.27E-6**	**8.92E-6 J**	**1.37E-5**	**2.07E-5**
PCB-054	mg/kg			< 5.52E-7 U	< 1.17E-7 U	< 1.58E-6 U	< 2.55E-6 U	< 1.02E-6 U
PCB-055	mg/kg			< 4.19E-7 U	**5.51E-7**	**2.53E-6 J**	**6.38E-6 J**	**1.47E-5**
PCB-056/060	mg/kg			**5.83E-6 J**	**1.45E-5**	**2.31E-5 J**	**4.71E-5**	**4.90E-5**
PCB-057	mg/kg			< 4.53E-7 U	< 1.03E-7 U	< 1.64E-6 U	< 2.06E-6 U	< 8.85E-7 U
PCB-058	mg/kg			< 4.46E-7 U	< 1.23E-7 U	< 1.61E-6 U	< 2.03E-6 U	< 8.72E-7 U
PCB-061/070	mg/kg			**1.40E-5 J**	**2.67E-5**	**6.16E-5**	**1.83E-4**	**2.53E-4**
PCB-062	mg/kg			< 4.86E-7 U	< 1.11E-7 U	< 1.65E-6 U	< 2.10E-6 U	< 9.14E-7 U
PCB-063	mg/kg			< 4.35E-7 U	**5.83E-7**	< 1.58E-6 U	< 1.42E-6 U	< 1.95E-6 U
PCB-065	mg/kg			< 5.01E-7 U	< 1.15E-7 U	< 1.70E-6 U	< 2.16E-6 U	< 9.43E-7 U
PCB-066/076	mg/kg			**8.96E-6 J**	**2.38E-5**	**3.50E-5**	**7.77E-5**	**1.89E-4**
PCB-067	mg/kg			< 4.64E-7 U	< 3.24E-7 U	< 1.68E-6 U	< 1.47E-6 U	< 9.08E-7 U
PCB-068	mg/kg			< 4.10E-7 U	< 9.38E-8 U	< 1.39E-6 U	< 1.12E-6 U	< 7.71E-7 U
PCB-073	mg/kg			< 4.63E-7 U	< 1.14E-7 U	< 1.62E-6 U	< 2.11E-6 U	< 9.61E-7 U
PCB-074	mg/kg			< 2.77E-6 U	**7.90E-6**	**1.10E-5 J**	**3.07E-5**	**3.20E-5**
PCB-077	mg/kg			**3.68E-6 J**	**7.59E-6**	**1.76E-5**	**5.74E-5**	**5.01E-5**
PCB-078	mg/kg			< 4.36E-7 U	< 1.04E-7 U	< 1.35E-6 U	< 1.88E-6 U	**5.98E-6 J**
PCB-079	mg/kg			< 4.45E-7 U	**1.22E-6**	**6.22E-6 J**	**1.38E-5**	**2.85E-5**

Table I.6.B.2. Individual PCB Congeners and Co-Located Aroclors in Vadose Soil

South Park Marina Site, Seattle, Washington

			Location	SS-12	SS-13	SS-14	SS-15	SS-16
			Sample Date	02/09/16	02/10/16	02/10/16	02/09/16	02/09/16
			Sample	SPM-SS-12-02092016	SPM-SS-13-02102016	SPM-SS-14-02102016	SPM-SS-15-02102016	SPM-SS-16-02092016
Analyte	Unit	Proposed RI CUL	Basis of CUL					
PCB-080	mg/kg			< 3.90E-7 U	< 8.66E-8 U	< 1.30E-6 U	< 1.74E-6 U	< 6.86E-7 U
PCB-081	mg/kg			< 3.97E-7 U	**3.85E-7**	**2.72E-6 J**	**6.73E-6 J**	**3.50E-5**
PCB-082	mg/kg			**8.29E-6 J**	**2.72E-5**	**7.19E-5**	**2.32E-4**	**3.33E-4**
PCB-083	mg/kg			< 7.29E-7 U	< 1.65E-7 U	< 3.43E-6 U	< 2.52E-6 U	< 8.62E-7 U
PCB-084/092	mg/kg			**3.24E-5**	**8.05E-5**	**1.62E-4**	**8.54E-4**	**1.42E-3**
PCB-085/116	mg/kg			**1.97E-5 J**	**2.87E-5**	**1.21E-4**	**3.08E-4**	**6.85E-4**
PCB-086	mg/kg			< 1.17E-6 U	< 2.65E-7 U	< 5.52E-6 U	< 4.05E-6 U	< 1.39E-6 U
PCB-087/117/125	mg/kg			**2.46E-5 J**	**6.14E-5**	**1.60E-4**	**6.17E-4**	**1.14E-3**
PCB-088/091	mg/kg			**1.17E-5 J**	**2.32E-5**	**7.51E-5**	**3.07E-4**	**6.04E-4**
PCB-089	mg/kg			< 1.25E-6 U	**1.69E-6**	**3.68E-6 J**	**1.36E-5**	**2.07E-5**
PCB-090/101	mg/kg			**8.12E-5**	**2.33E-4**	**3.99E-4**	**1.71E-3**	**3.30E-3**
PCB-093	mg/kg			< 1.22E-6 U	< 2.55E-7 U	< 5.70E-6 U	< 3.83E-6 U	< 1.35E-6 U
PCB-094	mg/kg			< 1.15E-6 U	< 7.34E-7 U	< 5.35E-6 U	**5.23E-6 J**	**1.26E-5**
PCB-095/098/102	mg/kg			**7.47E-5**	**1.89E-4**	**2.68E-4**	**1.86E-3**	**3.09E-3**
PCB-096	mg/kg			< 8.96E-7 U	**1.25E-6**	< 4.16E-6 U	**6.34E-6 J**	**1.96E-5**
PCB-097	mg/kg			**2.21E-5**	**4.22E-5**	**1.27E-4**	**3.17E-4**	**7.85E-4**
PCB-099	mg/kg			**3.81E-5**	**5.79E-5**	**2.27E-4**	**6.03E-4**	**1.38E-3**
PCB-100	mg/kg			< 1.02E-6 U	< 2.15E-7 U	< 4.72E-6 U	**3.70E-6 J**	**6.61E-6 J**
PCB-103	mg/kg			< 1.01E-6 U	**9.04E-7**	< 4.70E-6 U	**7.52E-6 J**	**1.27E-5**
PCB-104	mg/kg			< 7.75E-7 U	< 1.64E-7 U	< 3.60E-6 U	< 2.25E-6 U	< 8.79E-7 U
PCB-105	mg/kg			**3.66E-5**	**4.86E-5**	**1.83E-4**	**4.64E-4**	**6.31E-4**
PCB-106/118	mg/kg			**8.57E-5**	**1.45E-4**	**3.41E-4**	**1.09E-3**	**2.28E-3**
PCB-107/109	mg/kg			**7.99E-6 J**	**1.22E-5**	**3.63E-5**	**1.01E-4**	**1.45E-4**
PCB-108/112	mg/kg			**4.29E-6 J**	**7.20E-6**	**1.33E-5 J**	**4.54E-5**	**1.19E-4**
PCB-110	mg/kg			**1.69E-4**	**3.02E-4**	**8.33E-4**	**2.35E-3**	**5.37E-3**
PCB-111/115	mg/kg			< 6.53E-7 U	**2.33E-6**	**6.89E-6 J**	**1.30E-5 J**	**3.06E-5**
PCB-113	mg/kg			< 9.31E-7 U	< 1.79E-7 U	< 3.89E-6 U	< 2.70E-6 U	< 1.02E-6 U
PCB-114	mg/kg			< 8.06E-7 U	**2.29E-6**	**6.12E-6 J**	**1.64E-5**	**3.73E-5**
PCB-119	mg/kg			< 6.45E-7 U	**1.91E-6**	**3.58E-6 J**	**7.99E-6 J**	**3.47E-5**
PCB-120	mg/kg			< 6.10E-7 U	**1.49E-6**	**3.52E-6 J**	**8.74E-6 J**	**1.15E-5 J**
PCB-121	mg/kg			< 7.39E-7 U	< 1.54E-7 U	< 3.43E-6 U	< 2.31E-6 U	< 8.15E-7 U
PCB-122	mg/kg			< 9.59E-7 U	**2.48E-6**	**9.94E-6 J**	**2.16E-5**	**4.73E-5**
PCB-123	mg/kg			< 7.75E-7 U	**2.71E-6**	**1.24E-5**	**3.85E-5**	**5.10E-5**
PCB-124	mg/kg			**7.85E-6 J**	**1.50E-5**	**3.42E-5**	**1.03E-4**	**1.79E-4**
PCB-126	mg/kg			**2.73E-6 J**	**4.24E-6**	**1.22E-5 J**	**3.33E-5**	**2.92E-5**
PCB-127	mg/kg			< 7.55E-7 U	< 1.37E-7 U	< 2.71E-6 U	< 2.19E-6 U	< 1.26E-6 U
PCB-128/162	mg/kg			**5.17E-5**	**1.19E-4**	**3.18E-4**	**8.40E-4**	**1.34E-3**
PCB-129	mg/kg			**1.41E-5**	**2.75E-5**	**7.89E-5**	**2.20E-4**	**3.27E-4**
PCB-130	mg/kg			**3.13E-5**	**7.41E-5**	**1.55E-4**	**4.30E-4**	**6.15E-4**
PCB-131	mg/kg			< 1.43E-6 U	< 3.86E-7 U	< 2.62E-6 U	< 4.63E-6 U	< 2.91E-6 U
PCB-131/133	mg/kg							
PCB-132/161	mg/kg			**1.05E-4**	**3.07E-4**	**5.59E-4**	**1.54E-3**	**2.53E-3**
PCB-133/142	mg/kg			**1.00E-5 J**	**2.46E-5**	**5.21E-5**	**1.51E-4**	**2.18E-4**
PCB-134/143	mg/kg			**1.81E-5 J**	**4.57E-5**	**8.06E-5**	**2.57E-4**	**4.09E-4**
PCB-135	mg/kg			**5.91E-5**	**1.73E-4**	**2.77E-4**	**6.84E-4**	**1.26E-3**
PCB-136	mg/kg			**5.19E-5**	**1.37E-4**	**2.05E-4**	**5.62E-4**	**1.20E-3**
PCB-137	mg/kg			**1.12E-5 J**	**1.62E-5**	**8.47E-5**	**2.30E-4**	**4.22E-4**
PCB-138/163/164	mg/kg			**4.64E-4**	**1.46E-3**	**2.29E-3**	**6.27E-3**	**9.63E-3**
PCB-139/149	mg/kg			**4.10E-4**	**1.22E-3**	**1.93E-3**	**4.75E-3**	**8.54E-3**
PCB-140	mg/kg			< 7.60E-7 U	**4.03E-6**	**1.13E-5 J**	**2.69E-5**	**3.71E-5**
PCB-141	mg/kg			**9.41E-5**	**3.56E-4**	**3.11E-4**	**1.38E-3**	**2.32E-3**
PCB-142	mg/kg							
PCB-144	mg/kg			**1.43E-5**	**5.72E-5**	**6.39E-5**	**2.50E-4**	**5.17E-4**
PCB-145	mg/kg			< 5.40E-7 U	< 1.30E-7 U	< 3.34E-6 U	< 3.14E-6 U	< 5.71E-7 U
PCB-146/165	mg/kg			**6.63E-5**	**2.08E-4**	**3.42E-4**	**8.82E-4**	**1.26E-3**
PCB-147	mg/kg			< 7.58E-7 U	**6.72E-6**	**3.13E-5**	**9.08E-5**	**1.34E-4**
PCB-148	mg/kg			< 7.22E-7 U	< 1.73E-7 U	< 4.46E-6 U	< 4.21E-6 U	< 7.63E-7 U
PCB-150	mg/kg			< 5.23E-7 U	< 1.59E-7 U	**3.57E-6 J**	**7.09E-6 J**	**8.44E-6 J**
PCB-151	mg/kg			**1.07E-4**	**3.82E-4**	**2.64E-4**	**1.32E-3**	**2.51E-3**
PCB-152	mg/kg			< 5.05E-7 U	< 1.21E-7 U	< 3.12E-6 U	**2.86E-6 J**	**5.57E-6 J**
PCB-153	mg/kg			**4.02E-4**	**1.46E-3**	**1.99E-3**	**5.73E-3**	**8.37E-3**
PCB-154	mg/kg			< 6.63E-7 U	**6.01E-6**	< 1.70E-5 U	**4.52E-5**	**5.82E-5**
PCB-155	mg/kg			< 4.93E-7 U	< 1.18E-7 U	< 3.04E-6 U	< 2.87E-6 U	< 5.21E-7 U
PCB-156	mg/kg			**3.42E-5**	**7.10E-5**	**1.43E-4**	**4.57E-4**	**4.52E-4**
PCB-157	mg/kg			**6.36E-6 J**	**1.31E-5**	**4.50E-5**	**1.25E-4**	**1.67E-4**
PCB-158/160	mg/kg			**4.58E-5**	**1.16E-4**	**2.30E-4**	**5.78E-4**	**9.14E-4**
PCB-159	mg/kg			**9.83E-6 J**	< 2.46E-5 U	< 1.69E-6 U	< 2.64E-6 U	**1.20E-4**
PCB-166	mg/kg			< 1.04E-6 U	**1.13E-6**	**5.64E-6 J**	**1.50E-5**	**1.97E-5**
PCB-167	mg/kg			**1.79E-5**	**4.93E-5**	**8.77E-5**	**2.69E-4**	**3.70E-4**
PCB-168	mg/kg			< 8.91E-7 U	< 2.41E-7 U	< 1.63E-6 U	< 2.88E-6 U	< 1.81E-6 U
PCB-169	mg/kg			< 1.09E-6 U	**1.15E-6**	< 1.31E-6 U	**5.01E-6 J**	**4.97E-6 J**
PCB-170	mg/kg			**2.36E-4**	**7.38E-4**	**1.06E-3**	**2.50E-3**	**3.54E-3**
PCB-171	mg/kg			**6.18E-5**	**1.78E-4**	**2.85E-4**	**6.23E-4**	**8.60E-4**

Table I.6.B.2. Individual PCB Congeners and Co-Located Aroclors in Vadose Soil

South Park Marina Site, Seattle, Washington

			Location	SS-12	SS-13	SS-14	SS-15	SS-16
			Sample Date	02/09/16	02/10/16	02/10/16	02/09/16	02/09/16
			Sample	SPM-SS-12-02092016	SPM-SS-13-02102016	SPM-SS-14-02102016	SPM-SS-15-02102016	SPM-SS-16-02092016
Analyte	Unit	Proposed RI CUL	Basis of CUL					
PCB-172	mg/kg			**4.66E-5**	**1.40E-4**	**2.13E-4**	**4.78E-4**	**6.03E-4**
PCB-173	mg/kg			< 1.28E-6 U	**1.87E-5**	**2.62E-5**	**5.84E-5**	**8.33E-5**
PCB-174	mg/kg			**3.19E-4**	**9.12E-4**	**1.27E-3**	**2.97E-3**	**4.06E-3**
PCB-175	mg/kg			**1.13E-5 J**	**2.77E-5**	**5.40E-5**	**1.20E-4**	**1.64E-4**
PCB-176	mg/kg			**3.42E-5**	**8.33E-5**	**1.34E-4**	**2.92E-4**	**4.90E-4**
PCB-177	mg/kg			**1.70E-4**	**4.91E-4**	**7.15E-4**	**1.62E-3**	**2.16E-3**
PCB-178	mg/kg			**5.90E-5**	**1.56E-4**	**2.48E-4**	**5.68E-4**	**7.73E-4**
PCB-179	mg/kg			**1.17E-4**	**3.13E-4**	**4.30E-4**	**1.09E-3**	**1.72E-3**
PCB-180	mg/kg			**6.15E-4**	**1.84E-3**	**2.76E-3**	**6.50E-3**	**8.32E-3**
PCB-181	mg/kg			< 1.05E-6 U	< 3.06E-7 U	< 3.36E-6 U	< 2.92E-6 U	< 1.88E-6 U
PCB-182/187	mg/kg			**3.75E-4**	**9.72E-4**	**1.58E-3**	**3.67E-3**	**4.76E-3**
PCB-183	mg/kg			**1.41E-4**	**3.79E-4**	**6.66E-4**	**1.48E-3**	**2.10E-3**
PCB-184	mg/kg			< 9.00E-7 U	< 4.09E-7 U	< 2.79E-6 U	< 3.25E-6 U	**3.44E-6 J**
PCB-185	mg/kg			**3.19E-5**	**9.76E-5**	**8.64E-5**	**3.29E-4**	**4.32E-4**
PCB-186	mg/kg			< 8.27E-7 U	< 2.17E-7 U	< 2.56E-6 U	< 2.24E-6 U	< 1.53E-6 U
PCB-188	mg/kg			< 7.92E-7 U	**1.06E-6**	< 2.58E-6 U	**7.60E-6 J**	**5.13E-6 J**
PCB-189	mg/kg			**9.58E-6 J**	**2.86E-5**	**3.82E-5**	**1.00E-4**	**1.17E-4**
PCB-190	mg/kg			**5.31E-5**	**1.56E-4**	**2.23E-4**	**5.45E-4**	**7.04E-4**
PCB-191	mg/kg			**1.07E-5 J**	**2.69E-5**	**4.65E-5**	**1.01E-4**	**1.30E-4**
PCB-192	mg/kg			< 8.17E-7 U	< 2.38E-7 U	< 2.61E-6 U	< 2.26E-6 U	< 1.46E-6 U
PCB-193	mg/kg			**3.26E-5**	**8.74E-5**	**1.36E-4**	**3.07E-4**	**3.80E-4**
PCB-194	mg/kg			**1.62E-4**	**3.80E-4**	**5.28E-4**	**1.58E-3**	**1.71E-3**
PCB-195	mg/kg			**7.07E-5**	**1.70E-4**	**2.46E-4**	**6.38E-4**	**7.36E-4**
PCB-196/203	mg/kg			**2.09E-4**	**4.90E-4**	**8.70E-4**	**2.50E-3**	**2.24E-3**
PCB-197	mg/kg			**8.65E-6 J**	**1.38E-5**	**2.29E-5**	**6.36E-5**	**6.58E-5**
PCB-198	mg/kg			**1.11E-5 J**	**2.53E-5**	**3.63E-5**	**1.08E-4**	**1.04E-4**
PCB-199	mg/kg			**2.29E-4**	**4.86E-4**	**8.40E-4**	**2.40E-3**	**2.07E-3**
PCB-200	mg/kg			**2.48E-5**	**5.78E-5**	**8.91E-5**	**2.42E-4**	**2.60E-4**
PCB-201	mg/kg			**3.23E-5**	**4.72E-5**	**8.62E-5**	**2.33E-4**	**2.40E-4**
PCB-202	mg/kg			**4.98E-5**	**7.35E-5**	**1.36E-4**	**4.03E-4**	**3.44E-4**
PCB-204	mg/kg			< 6.57E-7 U	< 1.57E-7 U	< 2.82E-6 U	< 2.87E-6 U	< 6.82E-7 U
PCB-205	mg/kg			**9.28E-6 J**	**1.97E-5**	**2.96E-5**	**7.64E-5**	**8.85E-5**
PCB-206	mg/kg			**1.88E-4**	**1.06E-4**	**3.89E-4**	**1.39E-3**	**5.73E-4**
PCB-207	mg/kg			**3.45E-5**	**1.21E-5**	**6.83E-5**	**1.48E-4**	**7.35E-5**
PCB-208	mg/kg			**9.06E-5**	**2.04E-5**	**1.28E-4**	**3.90E-4**	**1.20E-4**
PCB-209	mg/kg			**2.02E-4**	**1.02E-5**	**9.35E-4**	**7.46E-4**	**1.10E-4**
Total Decachlorobiphenyls	mg/kg			**2.02E-4**	**1.02E-5**	**9.35E-4**	**7.46E-4**	**1.10E-4**
Total Dichlorobiphenyls	mg/kg			< 2.26E-6 U		< 2.73E-5 U	**4.31E-5**	**2.21E-5**
Total Heptachlorobiphenyls	mg/kg			**2.32E-3**	**6.64E-3**	**9.97E-3 J**	**2.34E-2**	**3.14E-2**
Total Hexachlorobiphenyls	mg/kg			**2.02E-3**	**6.33E-3**	**9.56E-3 J**	**2.71E-2**	**4.38E-2**
Total Monochlorobiphenyls	mg/kg			**4.29E-6 J**		**5.57E-6 J**	**1.95E-5**	**1.31E-5**
Total Nonachlorobiphenyls	mg/kg			**3.14E-4**	**1.39E-4**	**5.86E-4**	**1.93E-3**	**7.66E-4**
Total Octachlorobiphenyls	mg/kg			**8.07E-4**	**1.76E-3**	**2.88E-3**	**8.24E-3**	**7.85E-3**
Total Pentachlorobiphenyls	mg/kg			**6.27E-4**	**1.29E-3**	**3.11E-3**	**1.11E-2**	**2.18E-2**
Total Tetrachlorobiphenyls	mg/kg			**7.13E-5 J**	**2.32E-4**	**3.80E-4 J**	**9.30E-4 J**	**1.28E-3**
Total Trichlorobiphenyls	mg/kg			**7.63E-6 J**	**3.58E-5**	**4.20E-5 J**	**1.18E-4 J**	**5.94E-5 J**
Total PCB Congeners (ND = 0)	mg/kg	1.8E-4	SL-3, PQL Adj.	**6.38E-3 J**	**1.64E-2**	**2.75E-2 J**	**7.36E-2 J**	**1.07E-1 J**
Total PCB TEQ (ND = 0)	mg/kg	7.0E-7	SL-3, PQL Adj.	**2.77E-7 J**	**4.66E-7**	**1.24E-6 J**	**3.53E-6 J**	**3.14E-6 J**

Notes:

Bold = detected

Gray Shaded = Nondetect result has an RDL that exceeds the Proposed RI CUL

Blue Shaded = Detected result exceeded the Proposed RI CUL

Proposed RI CUL = Proposed Remedial Investigation Cleanup Level

mg/kg = milligrams per kilogram

U = Analyte not detected at or above the RDL shown

J = Result value estimated

UJ = Analyte not detected, and the RDL shown is an estimate

(ND = 0) = calculated using zero for nondetected components

TEQ = Toxic Equivalency

A = One or more of the nine common Aroclor groups (1016, 1221, 1232, 1242, 1248, 1254, 1260, 1262, and 1268) were not reported, and the Total PCB Aroclors (ND = 0) sum assumes the missing components were nondetect.

Total PCB Aroclors (ND = 0) are the sum of Aroclors available, with nondetects = 0, unless all Aroclors were not detected, in which case the Total PCB Aroclors concentration is shown as nondetect at the maximum RDL for any individual Aroclor.

RDL = Reported Detection Limit

Table I.6.B.2. Individual PCB Congeners and Co-Located Aroclors in Vadose Soil

South Park Marina Site, Seattle, Washington

			Location	SS-17	SS-18	SS-19	SS-20	SS-21
			Sample Date	02/10/16	02/10/16	02/10/16	02/10/16	02/08/16
			Sample	SPM-SS-17-02102016	SPM-SS-18-02102016	SPM-SS-19-02102016	SPM-SS-20-02102016	SPM-SS-21-02082016
Analyte	Unit	Proposed RI CUL	Basis of CUL					
Polychlorinated Biphenyl Aroclors								
Aroclor 1016	mg/kg			< 0.004 U	< 0.004 U	< 0.08 U	< 0.08 U	< 0.04 UJ
Aroclor 1221	mg/kg			< 0.004 U	< 0.004 U	< 0.08 U	< 0.08 U	< 0.04 UJ
Aroclor 1232	mg/kg			< 0.004 U	< 0.004 U	< 0.08 U	< 0.08 U	< 0.04 UJ
Aroclor 1242	mg/kg			< 0.004 U	< 0.004 U	< 0.08 U	< 0.08 U	< 0.04 UJ
Aroclor 1248	mg/kg			< 0.004 U	< 0.004 U	< 0.08 U	< 0.08 U	< 0.04 UJ
Aroclor 1254	mg/kg			< 0.004 U	< 0.004 U	< 0.08 U	< 0.08 U	< 0.04 UJ
Aroclor 1260	mg/kg			< 0.004 U	**0.25**	**0.77**	< 0.08 U	**16 J**
Aroclor 1262	mg/kg			< 0.004 U	< 0.004 U	< 0.08 U	< 0.08 U	< 0.04 UJ
Aroclor 1268	mg/kg			< 0.004 U	< 0.004 U	< 0.08 U	< 0.08 U	< 0.04 UJ
Total PCB Aroclors (ND = 0)	mg/kg	0.036	SL-3, PQL Adj.	< 0.004 U	**0.25**	**0.77**	< 0.08 U	**16 J**
Polychlorinated Biphenyl Congeners								
PCB-001	mg/kg			< 2.65E-6 U	**4.05E-6 J**	**7.10E-6 J**	**6.26E-6 J**	**5.98E-5**
PCB-002	mg/kg			< 2.53E-6 U	**1.25E-6 J**	< 1.53E-6 U	**2.85E-6 J**	**1.42E-5**
PCB-003	mg/kg			< 2.13E-6 U	**3.68E-6 J**	**3.94E-6 J**	**6.29E-6 J**	**4.69E-5**
PCB-004/010	mg/kg			< 2.34E-5 U	< 2.22E-5 U	< 1.74E-5 U	**2.83E-5**	**3.95E-5**
PCB-005/008	mg/kg			< 1.88E-5 U	**1.04E-5 J**	**1.39E-5 J**	**1.77E-4**	**9.18E-5**
PCB-006	mg/kg			< 1.93E-5 U	< 1.80E-5 U	< 1.42E-5 U	**3.12E-5**	**2.87E-5**
PCB-007/009	mg/kg			< 1.91E-5 U	< 1.78E-5 U	< 1.41E-5 U	< 1.61E-5 U	**1.88E-5 J**
PCB-011	mg/kg			< 1.82E-5 U	< 1.67E-5 U	< 1.39E-5 U	< 1.58E-5 U	**1.45E-5**
PCB-012/013	mg/kg			< 1.84E-5 U	< 1.69E-5 U	< 1.41E-5 U	**2.00E-5 J**	**2.30E-5 J**
PCB-014	mg/kg			< 1.59E-5 U	< 1.46E-5 U	< 1.21E-5 U	< 1.38E-5 U	< 1.07E-5 U
PCB-015	mg/kg			< 1.62E-5 U	**1.52E-5**	**1.86E-5**	**5.37E-4**	**2.39E-4**
PCB-016/032	mg/kg			< 1.57E-6 U	**1.03E-5 J**	**8.22E-6 J**	**4.50E-4**	**5.81E-5**
PCB-017	mg/kg			< 1.71E-6 U	**5.28E-6 J**	**4.81E-6 J**	**1.61E-4**	**2.84E-5**
PCB-018	mg/kg			< 1.85E-6 U	**1.60E-5**	**1.23E-5**	**3.81E-4**	**8.42E-5**
PCB-019	mg/kg			< 1.93E-6 U	**2.13E-6 J**	< 1.98E-6 U	**9.59E-5**	**1.11E-5 J**
PCB-020/021/033	mg/kg			< 1.74E-6 U	**1.39E-5 J**	**1.51E-5 J**	**3.73E-4**	**8.34E-5**
PCB-022	mg/kg			< 1.73E-6 U	< 7.15E-6 U	**9.95E-6 J**	**4.03E-4**	**4.95E-5**
PCB-023	mg/kg			< 1.66E-6 U	**2.25E-6 J**	< 1.82E-6 U	< 1.83E-6 U	< 6.04E-6 U
PCB-024/027	mg/kg			< 1.26E-6 U	< 1.27E-6 U	< 1.27E-6 U	**7.79E-5**	**8.23E-6 J**
PCB-025	mg/kg			< 1.83E-6 U	**1.49E-6 J**	< 1.36E-6 U	**8.91E-5**	**7.62E-6 J**
PCB-026	mg/kg			< 1.62E-6 U	< 3.22E-6 U	< 2.56E-6 U	**2.28E-4**	**2.11E-5**
PCB-028	mg/kg			< 1.62E-6 U	**2.28E-5**	**2.65E-5**	**1.17E-3**	**1.23E-4**
PCB-029	mg/kg			< 1.66E-6 U	< 9.71E-7 U	< 1.83E-6 U	< 2.37E-6 U	< 6.04E-6 U
PCB-030	mg/kg			< 1.22E-6 U	< 1.20E-6 U	< 1.25E-6 U	< 1.22E-6 U	< 1.83E-6 U
PCB-031	mg/kg			< 1.60E-6 U	**2.31E-5**	**2.64E-5**	**1.24E-3**	**1.32E-4**
PCB-034	mg/kg			< 1.54E-6 U	< 1.86E-6 U	< 1.70E-6 U	**3.34E-6 J**	< 5.62E-6 U
PCB-035	mg/kg			< 1.68E-6 U	**1.79E-6 J**	**2.17E-6 J**	**2.77E-5**	< 6.16E-6 U
PCB-036	mg/kg			< 1.63E-6 U	< 1.92E-6 U	< 1.80E-6 U	< 1.70E-6 U	< 5.96E-6 U
PCB-037	mg/kg			< 1.57E-6 U	**2.23E-5**	**3.44E-5**	**8.57E-4**	**1.55E-4**
PCB-038	mg/kg			< 1.70E-6 U	< 2.01E-6 U	< 1.88E-6 U	**7.15E-6 J**	**8.63E-6 J**
PCB-039	mg/kg			< 1.68E-6 U	< 1.98E-6 U	< 1.85E-6 U	**2.29E-6 J**	< 6.14E-6 U
PCB-040	mg/kg			< 3.09E-6 U	**2.34E-5**	**4.28E-5**	**2.27E-4**	**1.56E-4**
PCB-041/064/071/072	mg/kg			< 1.98E-6 U	**1.99E-4**	**1.46E-4**	**2.07E-3**	**1.70E-3**
PCB-042	mg/kg							
PCB-042/059	mg/kg			< 2.14E-6 U	**4.26E-5**	**5.49E-5**	**7.38E-4**	**3.67E-4**
PCB-043/049	mg/kg			< 2.49E-6 U	**1.00E-4**	**1.87E-4**	**1.23E-3**	**1.36E-3**
PCB-044	mg/kg			< 3.04E-6 U	**1.91E-4**	**2.57E-4**	**1.70E-3**	**1.95E-3**
PCB-045	mg/kg			< 2.73E-6 U	**2.35E-5**	**3.02E-5**	**3.25E-4**	**1.99E-4**
PCB-046	mg/kg			< 2.99E-6 U	**6.38E-6 J**	**1.19E-5 J**	**1.06E-4**	**5.18E-5**
PCB-047	mg/kg			< 2.21E-6 U	**4.80E-5**	**4.62E-5**	**4.73E-4**	**3.22E-4**
PCB-048/075	mg/kg			< 2.00E-6 U	**9.50E-6 J**	**9.73E-6 J**	**1.93E-4**	**8.60E-5**
PCB-050	mg/kg			< 2.89E-6 U	< 4.12E-6 U	< 1.13E-6 U	**4.35E-6 J**	< 1.02E-5 U
PCB-051	mg/kg			< 2.44E-6 U	**6.77E-6 J**	**8.85E-6 J**	**6.91E-5**	**4.72E-5**
PCB-052/069	mg/kg			< 3.21E-6 U	**4.91E-4**	**6.67E-4**	**1.85E-3**	**7.83E-3**
PCB-053	mg/kg			< 2.49E-6 U	**3.54E-5**	**3.39E-5**	**2.88E-4**	**2.82E-4**
PCB-054	mg/kg			< 2.19E-6 U	< 3.13E-6 U	< 8.60E-7 U	**4.27E-6 J**	< 7.74E-6 U
PCB-055	mg/kg			< 1.82E-6 U	**9.75E-6 J**	**2.43E-5**	**4.65E-5**	**1.97E-4**
PCB-056/060	mg/kg			< 2.02E-6 U	**7.12E-5**	**1.51E-4**	**1.63E-3**	**7.80E-4**
PCB-057	mg/kg			< 1.92E-6 U	< 2.64E-6 U	**1.60E-6 J**	**1.36E-5**	**1.51E-5**
PCB-058	mg/kg			< 1.90E-6 U	**1.21E-6 J**	**1.91E-6 J**	**1.26E-5**	< 6.44E-6 U
PCB-061/070	mg/kg			< 2.75E-6 U	**2.87E-4**	**5.93E-4**	**2.83E-3**	**1.57E-3**
PCB-062	mg/kg			< 1.95E-6 U	< 2.86E-6 U	< 7.84E-7 U	< 2.68E-6 U	< 7.41E-6 U
PCB-063	mg/kg			< 1.85E-6 U	**3.39E-6 J**	**5.35E-6 J**	**8.33E-5**	**2.53E-5**
PCB-065	mg/kg			< 2.01E-6 U	< 2.95E-6 U	< 8.08E-7 U	< 2.77E-6 U	< 7.64E-6 U
PCB-066/076	mg/kg			< 1.83E-6 U	**9.18E-5**	**2.33E-4**	**2.21E-3**	**5.63E-3**
PCB-067	mg/kg			< 1.97E-6 U	**1.93E-6 J**	**3.18E-6 J**	**7.72E-5**	< 6.71E-6 U
PCB-068	mg/kg			< 1.64E-6 U	**1.53E-6 J**	**2.20E-6 J**	**1.94E-5**	**1.17E-5 J**
PCB-073	mg/kg			< 2.01E-6 U	< 2.87E-6 U	< 8.32E-7 U	**8.09E-6 J**	< 7.40E-6 U
PCB-074	mg/kg			< 1.78E-6 U	**4.43E-5**	**8.76E-5**	**7.44E-4**	**2.78E-4**
PCB-077	mg/kg			< 1.76E-6 U	**3.69E-5**	**1.62E-4**	**3.77E-4**	**6.54E-4**
PCB-078	mg/kg			< 1.85E-6 U	< 2.41E-6 U	< 6.94E-7 U	< 2.49E-6 U	< 6.19E-6 U
PCB-079	mg/kg			< 1.93E-6 U	**2.41E-5**	**7.60E-5**	**2.73E-5**	**5.14E-4**

Table I.6.B.2. Individual PCB Congeners and Co-Located Aroclors in Vadose Soil

South Park Marina Site, Seattle, Washington

			Location	SS-17	SS-18	SS-19	SS-20	SS-21
			Sample Date	02/10/16	02/10/16	02/10/16	02/10/16	02/08/16
			Sample	SPM-SS-17-02102016	SPM-SS-18-02102016	SPM-SS-19-02102016	SPM-SS-20-02102016	SPM-SS-21-02082016
Analyte	Unit	Proposed RI CUL	Basis of CUL					
PCB-080	mg/kg			< 1.69E-6 U	< 2.21E-6 U	< 6.22E-7 U	< 2.08E-6 U	< 5.52E-6 U
PCB-081	mg/kg			< 1.69E-6 U	**7.57E-6 J**	**2.00E-5**	**1.14E-5 J**	**6.10E-4**
PCB-082	mg/kg			< 5.65E-6 U	**4.51E-4**	**8.22E-4**	**4.65E-4**	**5.06E-3**
PCB-083	mg/kg			< 3.20E-6 U	< 3.90E-6 U	< 2.75E-6 U	**3.63E-6 J**	< 3.89E-6 U
PCB-084/092	mg/kg			**9.33E-6 J**	**1.92E-3**	**4.15E-3**	**1.35E-3**	**7.62E-2**
PCB-085/116	mg/kg			**3.26E-6 J**	**6.85E-4**	**1.92E-3**	**8.97E-4**	**7.68E-3**
PCB-086	mg/kg			< 5.15E-6 U	< 6.28E-6 U	< 4.42E-6 U	**1.42E-5**	< 6.26E-6 U
PCB-087/117/125	mg/kg			**7.23E-6 J**	**1.34E-3**	**3.17E-3**	**1.11E-3**	**5.37E-2**
PCB-088/091	mg/kg			**3.60E-6 J**	**5.13E-4**	**1.16E-3**	**5.45E-4**	**6.30E-3**
PCB-089	mg/kg			< 4.44E-6 U	**2.58E-5**	**3.26E-5**	**3.55E-5**	**3.42E-4**
PCB-090/101	mg/kg			**4.87E-5**	**5.19E-3**	**1.34E-2**	**2.95E-3**	**5.04E-1 J**
PCB-093	mg/kg			< 4.83E-6 U	< 5.47E-6 U	< 4.02E-6 U	< 3.57E-6 U	< 5.30E-6 U
PCB-094	mg/kg			< 4.54E-6 U	**1.42E-5**	< 2.09E-5 U	**1.87E-5**	**1.92E-4**
PCB-095/098/102	mg/kg			**3.34E-5 J**	**4.19E-3**	**1.17E-2**	**2.40E-3**	**3.73E-1 J**
PCB-096	mg/kg			< 3.41E-6 U	**2.35E-5**	**2.56E-5**	**2.94E-5**	**3.61E-4**
PCB-097	mg/kg			**3.05E-6 J**	**8.60E-4**	**1.43E-3**	**7.94E-4**	**2.08E-2**
PCB-099	mg/kg			**7.01E-6 J**	**1.27E-3**	**4.25E-3**	**1.56E-3**	**1.75E-2**
PCB-100	mg/kg			< 3.86E-6 U	**6.55E-6 J**	**1.44E-5**	**7.54E-6 J**	**8.00E-5**
PCB-103	mg/kg			< 3.84E-6 U	< 1.34E-5 U	**3.54E-5**	**1.13E-5 J**	**4.56E-4**
PCB-104	mg/kg			< 2.94E-6 U	< 3.67E-6 U	< 2.61E-6 U	< 2.19E-6 U	< 1.74E-6 U
PCB-105	mg/kg			**6.34E-6 J**	**7.65E-4**	**2.10E-3**	**8.13E-4**	**2.70E-2**
PCB-106/118	mg/kg			**2.29E-5 J**	**2.68E-3**	**6.82E-3**	**2.26E-3**	**1.16E-1 J**
PCB-107/109	mg/kg			< 3.14E-6 U	**2.49E-4**	**6.46E-4**	**1.97E-4**	**5.75E-3**
PCB-108/112	mg/kg			< 3.79E-6 U	**1.47E-4**	**2.81E-4**	**1.44E-4**	**2.28E-3**
PCB-110	mg/kg			**4.15E-5**	**8.23E-3**	**2.06E-2**	**4.96E-3**	**3.09E-1 J**
PCB-111/115	mg/kg			< 2.87E-6 U	**5.25E-5**	**9.55E-5**	**5.64E-5**	**6.85E-4**
PCB-113	mg/kg			< 3.30E-6 U	< 4.13E-6 U	< 3.03E-6 U	< 2.50E-6 U	< 3.62E-6 U
PCB-114	mg/kg			< 2.85E-6 U	**4.29E-5**	**1.06E-4**	**4.62E-5**	**2.10E-4**
PCB-119	mg/kg			< 2.83E-6 U	**5.16E-5**	**9.30E-5**	**5.63E-5**	**6.26E-4**
PCB-120	mg/kg			< 2.68E-6 U	**5.24E-5**	**1.15E-4**	**1.09E-5 J**	**3.91E-3**
PCB-121	mg/kg			< 2.91E-6 U	< 3.30E-6 U	< 2.42E-6 U	< 2.15E-6 U	< 3.19E-6 U
PCB-122	mg/kg			< 3.40E-6 U	**5.07E-5**	**1.56E-4**	**5.31E-5**	**5.06E-4**
PCB-123	mg/kg			< 3.35E-6 U	**6.40E-5**	**2.83E-4**	**8.33E-5**	**3.50E-4**
PCB-124	mg/kg			< 3.22E-6 U	**3.66E-4**	**1.11E-3**	**1.99E-4**	**4.28E-3**
PCB-126	mg/kg			< 1.85E-6 U	**9.29E-5**	**2.43E-4**	**2.84E-5**	**3.16E-3**
PCB-127	mg/kg			< 3.07E-6 U	**4.92E-6 J**	**7.35E-6 J**	< 3.83E-6 U	< 6.16E-5 U
PCB-128/162	mg/kg			**2.25E-5 J**	**2.93E-3**	**8.44E-3**	**1.15E-3**	**1.09E-1**
PCB-129	mg/kg			**4.16E-6 J**	**7.70E-4**	**1.89E-3**	**2.81E-4**	**2.23E-2**
PCB-130	mg/kg			**1.61E-5**	**1.74E-3**	**4.82E-3**	**5.40E-4**	**6.91E-2**
PCB-131	mg/kg			< 2.05E-6 U	< 3.84E-6 U	< 3.95E-5 U	< 6.26E-6 U	< 5.70E-5 U
PCB-131/133	mg/kg							
PCB-132/161	mg/kg			**6.49E-5**	**7.98E-3**	**2.19E-2**	**1.78E-3**	**3.55E-1**
PCB-133/142	mg/kg			**5.19E-6 J**	**5.92E-4**	**1.54E-3**	**1.60E-4**	**2.28E-2**
PCB-134/143	mg/kg			**1.02E-5 J**	**1.13E-3**	**2.97E-3**	**3.16E-4**	**4.77E-2**
PCB-135	mg/kg			**5.19E-5**	**4.68E-3**	**1.07E-2**	**8.29E-4**	**3.47E-1**
PCB-136	mg/kg			**4.76E-5**	**4.07E-3**	**8.88E-3**	**6.85E-4**	**3.40E-1**
PCB-137	mg/kg			**3.20E-6 J**	**5.12E-4**	**1.61E-3**	**2.98E-4**	**8.23E-3**
PCB-138/163/164	mg/kg			**3.32E-4**	**3.27E-2**	**8.69E-2**	**7.36E-3**	**1.58E+0 J**
PCB-139/149	mg/kg			**3.53E-4**	**3.03E-2**	**7.84E-2**	**5.14E-3**	**2.41E+0 J**
PCB-140	mg/kg			< 2.52E-6 U	**1.42E-4**	**2.96E-4**	**3.00E-5**	**2.60E-3**
PCB-141	mg/kg			**9.24E-5**	**8.56E-3**	**2.31E-2**	**1.47E-3**	**5.86E-1 J**
PCB-142	mg/kg							
PCB-144	mg/kg			**1.92E-5**	**1.72E-3**	**4.34E-3**	**1.98E-4**	**1.30E-1**
PCB-145	mg/kg			< 1.79E-6 U	**3.88E-6 J**	**6.44E-6 J**	< 2.92E-6 U	**4.93E-5 J**
PCB-146/165	mg/kg			**6.07E-5**	**4.70E-3**	**1.27E-2**	**9.46E-4**	**2.03E-1**
PCB-147	mg/kg			**4.56E-6 J**	**2.15E-4**	**5.85E-4**	**1.08E-4**	**4.29E-3**
PCB-148	mg/kg			< 2.40E-6 U	**1.28E-5**	< 3.83E-6 U	< 3.91E-6 U	< 5.85E-5 U
PCB-150	mg/kg			< 1.74E-6 U	**4.49E-5**	**8.19E-5**	**7.68E-6 J**	**8.71E-4**
PCB-151	mg/kg			**1.26E-4**	**1.01E-2**	**2.56E-2**	**1.33E-3**	**8.43E-1 J**
PCB-152	mg/kg			< 1.68E-6 U	**1.09E-5 J**	**2.09E-5**	**3.27E-6 J**	**1.75E-4**
PCB-153	mg/kg			**4.22E-4**	**2.95E-2**	**8.64E-2 J**	**6.16E-3**	**1.65E+0 J**
PCB-154	mg/kg			< 3.05E-6 U	**2.04E-4**	**5.08E-4**	**4.28E-5**	**4.76E-3**
PCB-155	mg/kg			< 1.64E-6 U	< 3.06E-6 U	< 2.61E-6 U	< 2.67E-6 U	< 2.81E-5 U
PCB-156	mg/kg			**1.25E-5**	**1.55E-3**	**4.07E-3**	**5.06E-4**	**8.88E-2**
PCB-157	mg/kg			**2.74E-6 J**	**3.52E-4**	**1.03E-3**	**1.55E-4**	**9.51E-3**
PCB-158/160	mg/kg			**2.57E-5**	**3.06E-3**	**7.31E-3**	**6.89E-4**	**1.34E-1**
PCB-159	mg/kg			< 1.26E-6 U	< 2.47E-6 U	< 2.49E-5 U	< 4.00E-6 U	< 4.11E-5 U
PCB-166	mg/kg			< 1.34E-6 U	**3.01E-5**	**8.78E-5**	**2.15E-5**	**2.83E-4**
PCB-167	mg/kg			**1.17E-5 J**	**1.12E-3**	**3.21E-3**	**3.08E-4**	**5.48E-2**
PCB-168	mg/kg			< 1.28E-6 U	**2.93E-5**	**7.25E-5**	**7.48E-6 J**	< 3.55E-5 U
PCB-169	mg/kg			< 1.40E-6 U	**2.45E-5**	**5.57E-5**	**2.81E-6 J**	**8.24E-4**
PCB-170	mg/kg			**1.86E-4**	**1.64E-2**	**4.04E-2**	**2.13E-3**	**1.11E+0 J**
PCB-171	mg/kg			**5.16E-5**	**4.26E-3**	**9.71E-3**	**5.44E-4**	**2.13E-1**

Table I.6.B.2. Individual PCB Congeners and Co-Located Aroclors in Vadose Soil

South Park Marina Site, Seattle, Washington

			Location	SS-17	SS-18	SS-19	SS-20	SS-21
			Sample Date	02/10/16	02/10/16	02/10/16	02/10/16	02/08/16
			Sample	SPM-SS-17-02102016	SPM-SS-18-02102016	SPM-SS-19-02102016	SPM-SS-20-02102016	SPM-SS-21-02082016
Analyte	Unit	Proposed RI CUL	Basis of CUL					
PCB-172	mg/kg			**4.10E-5**	**3.14E-3**	**7.01E-3**	**4.11E-4**	**1.47E-1**
PCB-173	mg/kg			**3.82E-6 J**	**4.09E-4**	**9.49E-4**	**6.20E-5**	**2.08E-2**
PCB-174	mg/kg			**2.87E-4**	**1.97E-2**	**4.83E-2**	**2.61E-3**	**1.04E+0 J**
PCB-175	mg/kg			**9.79E-6 J**	**8.37E-4**	**1.82E-3**	**8.82E-5**	**4.87E-2**
PCB-176	mg/kg			**3.05E-5**	**2.16E-3**	**5.25E-3**	**2.39E-4**	**1.49E-1**
PCB-177	mg/kg			**1.46E-4**	**1.07E-2**	**2.61E-2**	**1.43E-3**	**5.43E-1 J**
PCB-178	mg/kg			**6.02E-5**	**3.64E-3**	**8.50E-3**	**4.70E-4**	**2.39E-1**
PCB-179	mg/kg			**1.29E-4**	**7.38E-3**	**1.84E-2**	**9.70E-4**	**5.35E-1 J**
PCB-180	mg/kg			**5.70E-4**	**4.09E-2**	**9.56E-2 J**	**5.22E-3**	**2.16E+0 J**
PCB-181	mg/kg			< 2.58E-6 U	< 1.59E-6 U	< 4.23E-6 U	< 2.56E-6 U	< 5.54E-5 U
PCB-182/187	mg/kg			**3.74E-4**	**2.18E-2**	**5.33E-2**	**2.86E-3**	**1.50E+0 J**
PCB-183	mg/kg			**1.35E-4**	**9.62E-3**	**2.22E-2**	**1.11E-3**	**6.39E-1 J**
PCB-184	mg/kg			< 1.98E-6 U	**1.80E-5**	**3.58E-5**	**1.94E-6 J**	**4.08E-4**
PCB-185	mg/kg			**3.69E-5**	**2.08E-3**	**4.84E-3**	**2.71E-4**	**1.16E-1**
PCB-186	mg/kg			< 1.82E-6 U	< 1.23E-6 U	< 3.34E-6 U	< 1.85E-6 U	< 5.06E-5 U
PCB-188	mg/kg			< 1.74E-6 U	**3.18E-5**	**5.91E-5**	**4.28E-6 J**	**5.65E-4**
PCB-189	mg/kg			**5.69E-6 J**	**5.84E-4**	**1.42E-3**	**8.50E-5**	**3.86E-2**
PCB-190	mg/kg			**4.43E-5**	**3.24E-3**	**8.29E-3**	**4.50E-4**	**2.23E-1**
PCB-191	mg/kg			**7.83E-6 J**	**6.66E-4**	**1.42E-3**	**8.00E-5**	**3.16E-2**
PCB-192	mg/kg			< 2.00E-6 U	< 1.23E-6 U	< 3.28E-6 U	< 1.99E-6 U	< 4.30E-5 U
PCB-193	mg/kg			**3.01E-5**	**1.93E-3**	**4.40E-3**	**2.59E-4**	**9.54E-2**
PCB-194	mg/kg			**1.46E-4**	**7.61E-3**	**1.87E-2**	**1.06E-3**	**4.56E-1 J**
PCB-195	mg/kg			**6.04E-5**	**3.33E-3**	**8.59E-3**	**4.83E-4**	**2.03E-1**
PCB-196/203	mg/kg			**2.12E-4**	**1.06E-2**	**2.60E-2**	**1.37E-3**	**8.06E-1 J**
PCB-197	mg/kg			**6.62E-6 J**	**3.08E-4**	**7.65E-4**	**3.95E-5**	**2.39E-2**
PCB-198	mg/kg			**1.00E-5 J**	**4.49E-4**	**1.18E-3**	**6.07E-5**	**2.92E-2**
PCB-199	mg/kg			**2.19E-4**	**1.01E-2**	**2.48E-2**	**1.40E-3**	**7.28E-1 J**
PCB-200	mg/kg			**2.87E-5**	**1.19E-3**	**3.02E-3**	**1.69E-4**	**9.19E-2**
PCB-201	mg/kg			**2.28E-5**	**1.07E-3**	**2.62E-3**	**1.40E-4**	**8.10E-2**
PCB-202	mg/kg			**3.88E-5**	**1.43E-3**	**3.61E-3**	**2.24E-4**	**1.09E-1**
PCB-204	mg/kg			< 2.91E-6 U	< 2.75E-6 U	**6.86E-6 J**	< 2.80E-6 U	**1.26E-4**
PCB-205	mg/kg			**8.19E-6 J**	**4.01E-4**	**1.02E-3**	**5.72E-5**	**2.34E-2**
PCB-206	mg/kg			**8.03E-5**	**1.90E-3**	**4.36E-3**	**4.62E-4**	**1.04E-1**
PCB-207	mg/kg			**1.04E-5 J**	**2.47E-4**	**5.87E-4**	**5.40E-5**	**1.42E-2**
PCB-208	mg/kg			**2.53E-5**	**3.61E-4**	**7.73E-4**	**1.23E-4**	**1.70E-2**
PCB-209	mg/kg			**6.98E-5**	**1.94E-4**	**3.49E-4**	**2.28E-4**	**2.43E-3**
Total Decachlorobiphenyls	mg/kg			**6.98E-5**	**1.94E-4**	**3.49E-4**	**2.28E-4**	**2.43E-3**
Total Dichlorobiphenyls	mg/kg			< 2.34E-5 U	**2.56E-5**	**3.25E-5**	**7.94E-4**	**4.56E-4**
Total Heptachlorobiphenyls	mg/kg			**2.15E-3**	**1.50E-1**	**3.58E-1**	**1.93E-2**	**8.86E+0**
Total Hexachlorobiphenyls	mg/kg			**1.69E-3**	**1.49E-1**	**3.98E-1**	**3.05E-2**	**9.02E+0**
Total Monochlorobiphenyls	mg/kg			**4.78E-6 J**	**8.98E-6 J**	**1.10E-5 J**	**1.54E-5**	**1.21E-4**
Total Nonachlorobiphenyls	mg/kg			**1.16E-4**	**2.51E-3**	**5.72E-3**	**6.39E-4**	**1.35E-1**
Total Octachlorobiphenyls	mg/kg			**7.53E-4**	**3.66E-2**	**9.03E-2**	**5.00E-3**	**2.55E+0**
Total Pentachlorobiphenyls	mg/kg			**1.86E-4**	**2.93E-2 J**	**7.48E-2**	**2.11E-2**	**1.54E+0**
Total Tetrachlorobiphenyls	mg/kg			**5.96E-6 J**	**1.76E-3**	**2.86E-3**	**1.74E-2**	**2.46E-2**
Total Trichlorobiphenyls	mg/kg			< 1.93E-6 U	**1.21E-4 J**	**1.40E-4 J**	**5.57E-3 J**	**7.70E-4**
Total PCB Congeners (ND = 0)	mg/kg	1.8E-4	SL-3, PQL Adj.	**4.96E-3 J**	**3.69E-1 J**	**9.30E-1 J**	**1.01E-1 J**	**2.21E+1 J**
Total PCB TEQ (ND = 0)	mg/kg	7.0E-7	SL-3, PQL Adj.	**1.20E-9 J**	**1.02E-5 J**	**2.64E-5**	**3.03E-6 J**	**3.48E-4**

Notes:

Bold = detected

Gray Shaded = Nondetect result has an RDL that exceeds the Proposed RI CUL

Blue Shaded = Detected result exceeded the Proposed RI CUL

Proposed RI CUL = Proposed Remedial Investigation Cleanup Level

mg/kg = milligrams per kilogram

U = Analyte not detected at or above the RDL shown

J = Result value estimated

UJ = Analyte not detected, and the RDL shown is an estimate

(ND = 0) = calculated using zero for nondetected components

TEQ = Toxic Equivalency

A = One or more of the nine common Aroclor groups (1016, 1221, 1232, 1242, 1248, 1254, 1260, 1262, and 1268) were not reported, and the Total PCB Aroclors (ND = 0) sum assumes the missing components were nondetect.

Total PCB Aroclors (ND = 0) are the sum of Aroclors available, with nondetects = 0, unless all Aroclors were not detected, in which case the Total PCB Aroclors concentration is shown as nondetect at the maximum RDL for any individual Aroclor.

RDL = Reported Detection Limit

Table I.6.B.2. Individual PCB Congeners and Co-Located Aroclors in Vadose Soil

South Park Marina Site, Seattle, Washington

			Location	SS-22	SS-23	SS-24	SS-25	SS-26
			Sample Date	02/08/16	02/08/16	02/10/16	02/08/16	02/08/16
			Sample	SPM-SS-22-02082016	SPM-SS-23-02082016	SPM-SS-24-02102016	SPM-SS-25-02082016	SPM-SS-26-02082016
Analyte	Unit	Proposed RI CUL	Basis of CUL					
Polychlorinated Biphenyl Aroclors								
Aroclor 1016	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.04 U
Aroclor 1221	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.04 U
Aroclor 1232	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.04 U
Aroclor 1242	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.04 U
Aroclor 1248	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.04 U
Aroclor 1254	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	**0.11**
Aroclor 1260	mg/kg			**0.22**	**0.083**	**0.074**	**0.6**	**0.5**
Aroclor 1262	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.04 U
Aroclor 1268	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.04 U
Total PCB Aroclors (ND = 0)	mg/kg	0.036	SL-3, PQL Adj.	**0.22**	**0.083**	**0.074**	**0.6**	**0.61**
Polychlorinated Biphenyl Congeners								
PCB-001	mg/kg			**2.32E-5**	**2.06E-5**	**7.34E-6 J**	**4.07E-5**	**2.58E-5**
PCB-002	mg/kg			< 1.74E-5 U	**1.01E-5 J**	**7.55E-6 J**	**2.79E-5**	**1.54E-5**
PCB-003	mg/kg			**1.43E-5**	**1.12E-5 J**	**1.15E-5 J**	**9.80E-5**	**9.50E-5**
PCB-004/010	mg/kg			**1.73E-4**	**3.35E-5**	< 2.73E-5 U	< 1.26E-5 U	< 1.56E-5 U
PCB-005/008	mg/kg			**4.78E-4**	**1.16E-4**	**2.50E-5**	**5.95E-5**	**5.18E-5**
PCB-006	mg/kg			**9.48E-5**	**2.30E-4**	< 2.14E-5 U	**1.86E-5**	< 1.23E-5 U
PCB-007/009	mg/kg			**3.51E-5**	< 9.74E-6 U	< 2.12E-5 U	< 1.00E-5 U	< 1.22E-5 U
PCB-011	mg/kg			< 4.71E-5 U	**1.05E-4**	< 9.14E-6 U	**2.01E-5**	< 1.18E-5 U
PCB-012/013	mg/kg			< 4.77E-5 U	**1.03E-4**	< 2.08E-5 U	**2.66E-5**	< 2.78E-5 U
PCB-014	mg/kg			< 4.11E-5 U	< 8.59E-6 U	< 1.79E-5 U	< 8.97E-6 U	< 1.03E-5 U
PCB-015	mg/kg			**1.75E-4**	**4.19E-5**	**4.57E-5**	**1.39E-4**	**1.35E-4**
PCB-016/032	mg/kg			**8.47E-4**	**1.85E-4**	**2.36E-5 J**	**5.29E-5**	**2.77E-5**
PCB-017	mg/kg			**4.53E-4**	**6.32E-5**	**1.07E-5 J**	**2.02E-5**	**1.20E-5 J**
PCB-018	mg/kg			**1.30E-3**	**2.29E-4**	**3.06E-5**	**5.76E-5**	**3.95E-5**
PCB-019	mg/kg			**1.58E-4**	**4.54E-5**	< 4.83E-6 U	**1.04E-5 J**	**6.07E-6 J**
PCB-020/021/033	mg/kg			**9.27E-4**	**1.55E-4**	**3.64E-5 J**	**6.04E-5**	**5.22E-5**
PCB-022	mg/kg			**4.99E-4**	**9.75E-5**	**2.46E-5**	**4.05E-5**	**3.09E-5**
PCB-023	mg/kg			**1.53E-6 J**	< 1.84E-6 U	< 1.82E-6 U	< 4.57E-6 U	< 3.81E-6 U
PCB-024/027	mg/kg			**1.02E-4**	**2.75E-5**	< 3.48E-6 U	**9.28E-6 J**	**2.52E-6 J**
PCB-025	mg/kg			**9.59E-5**	**1.41E-5**	**4.55E-6 J**	< 9.53E-6 U	**7.95E-6 J**
PCB-026	mg/kg			**1.98E-4**	**3.50E-5**	**9.27E-6 J**	**1.52E-5**	**1.20E-5 J**
PCB-028	mg/kg			**1.11E-3**	**2.46E-4**	**6.02E-5**	**1.00E-4**	**7.13E-5**
PCB-029	mg/kg			**8.87E-6 J**	< 1.84E-6 U	< 1.82E-6 U	< 4.57E-6 U	< 3.81E-6 U
PCB-030	mg/kg			< 3.32E-6 U	< 1.15E-6 U	< 1.66E-6 U	< 2.76E-6 U	< 1.50E-6 U
PCB-031	mg/kg			< 4.48E-6 U	**2.47E-4**	**5.38E-5**	**9.91E-5**	**7.02E-5**
PCB-034	mg/kg			**3.79E-6 J**	< 1.72E-6 U	< 1.69E-6 U	**6.37E-6 J**	< 3.55E-6 U
PCB-035	mg/kg			**1.75E-5**	**6.39E-6 J**	**3.10E-6 J**	**7.70E-6 J**	**5.20E-6 J**
PCB-036	mg/kg			< 4.71E-6 U	< 1.84E-6 U	< 1.74E-6 U	**7.33E-6 J**	< 3.73E-6 U
PCB-037	mg/kg			**3.94E-4**	**1.40E-4**	**6.71E-5**	**9.65E-5**	**1.26E-4**
PCB-038	mg/kg			**1.34E-5**	**6.32E-6 J**	< 1.82E-6 U	**4.00E-6 J**	< 3.91E-6 U
PCB-039	mg/kg			< 4.85E-6 U	< 1.90E-6 U	< 1.80E-6 U	**1.18E-5 J**	< 3.85E-6 U
PCB-040	mg/kg			**4.84E-4**	**2.86E-4**	**1.80E-5**	**7.35E-5**	**2.42E-5**
PCB-041/064/071/072	mg/kg			**2.07E-3**	**1.50E-3**	**1.13E-4**	**7.24E-4**	**2.40E-4**
PCB-042	mg/kg							
PCB-042/059	mg/kg			**8.35E-4**	**3.86E-4**	**3.30E-5**	**1.36E-4**	**3.72E-5**
PCB-043/049	mg/kg			**1.44E-3**	**9.01E-4**	**6.80E-5**	**4.07E-4**	**1.39E-4**
PCB-044	mg/kg			**2.51E-3**	**1.91E-3**	**1.45E-4**	**7.68E-4**	**2.33E-4**
PCB-045	mg/kg			**8.03E-4**	**2.76E-4**	**2.02E-5**	**5.70E-5**	**1.53E-5**
PCB-046	mg/kg			**4.53E-4**	**1.73E-4**	**1.06E-5 J**	**2.11E-5**	**1.01E-5 J**
PCB-047	mg/kg			**5.54E-4**	**2.06E-4**	**2.01E-5**	**1.42E-4**	**3.26E-5**
PCB-048/075	mg/kg			**3.46E-4**	**1.67E-4**	**1.29E-5 J**	**3.60E-5**	**1.13E-5 J**
PCB-050	mg/kg			**8.46E-6 J**	**3.76E-6 J**	< 2.41E-6 U	< 5.90E-6 U	< 3.99E-6 U
PCB-051	mg/kg			**2.92E-4**	**9.01E-5**	**6.68E-6 J**	**1.70E-5**	< 4.30E-6 U
PCB-052/069	mg/kg			**4.12E-3**	**3.59E-3**	**2.35E-4**	**1.80E-3**	**5.07E-4**
PCB-053	mg/kg			**1.05E-3**	**3.82E-4**	**2.50E-5**	**9.34E-5**	**2.50E-5**
PCB-054	mg/kg			**1.51E-5**	< 3.10E-6 U	< 1.83E-6 U	< 4.49E-6 U	< 3.04E-6 U
PCB-055	mg/kg			**1.19E-4**	**5.20E-5**	**1.47E-5**	**9.48E-5**	**4.07E-5**
PCB-056/060	mg/kg			**1.19E-3**	**8.09E-4**	**8.29E-5**	**3.63E-4**	**2.51E-4**
PCB-057	mg/kg			**9.97E-6 J**	**1.02E-5 J**	**1.22E-6 J**	**3.49E-6 J**	< 3.74E-6 U
PCB-058	mg/kg			< 1.06E-5 U	< 3.11E-6 U	< 1.76E-6 U	**3.64E-6 J**	< 3.69E-6 U
PCB-061/070	mg/kg			**2.52E-3**	**1.96E-3**	**1.92E-4**	**9.25E-4**	**6.41E-4**
PCB-062	mg/kg			< 1.21E-5 U	< 3.41E-6 U	< 1.78E-6 U	< 3.98E-6 U	< 4.11E-6 U
PCB-063	mg/kg			**5.75E-5**	**3.99E-5**	< 1.37E-6 U	**1.23E-5**	**7.88E-6 J**
PCB-065	mg/kg			< 1.24E-5 U	< 3.52E-6 U	< 1.84E-6 U	< 4.10E-6 U	< 4.24E-6 U
PCB-066/076	mg/kg			**1.75E-3**	**1.08E-3**	**1.24E-4**	**5.72E-4**	**4.24E-4**
PCB-067	mg/kg			**5.39E-5**	**2.55E-5**	**3.01E-6 J**	< 7.19E-6 U	**6.29E-6 J**
PCB-068	mg/kg			**7.31E-6 J**	< 2.88E-6 U	< 1.50E-6 U	**6.45E-5**	< 3.47E-6 U
PCB-073	mg/kg			< 1.17E-5 U	< 3.48E-6 U	< 1.75E-6 U	**2.02E-5**	< 4.15E-6 U
PCB-074	mg/kg			**8.11E-4**	**5.46E-4**	**5.09E-5**	**2.04E-4**	**1.40E-4**
PCB-077	mg/kg			**2.83E-4**	**1.85E-4**	**4.65E-5**	**2.24E-4**	**1.55E-4**
PCB-078	mg/kg			< 1.03E-5 U	< 3.03E-6 U	< 1.54E-6 U	< 3.39E-6 U	< 3.50E-6 U
PCB-079	mg/kg			**1.12E-4**	**7.28E-5**	**2.03E-5**	**1.51E-4**	**7.80E-5**

Table I.6.B.2. Individual PCB Congeners and Co-Located Aroclors in Vadose Soil

South Park Marina Site, Seattle, Washington

			Location	SS-22	SS-23	SS-24	SS-25	SS-26
			Sample Date	02/08/16	02/08/16	02/10/16	02/08/16	02/08/16
			Sample	SPM-SS-22-02082016	SPM-SS-23-02082016	SPM-SS-24-02102016	SPM-SS-25-02082016	SPM-SS-26-02082016
Analyte	Unit	Proposed RI CUL	Basis of CUL					
PCB-080	mg/kg			< 8.90E-6 U	< 2.63E-6 U	< 1.48E-6 U	< 3.17E-6 U	< 3.08E-6 U
PCB-081	mg/kg			**3.02E-5**	**1.87E-5**	**5.73E-6 J**	**3.92E-5**	**1.13E-5 J**
PCB-082	mg/kg			**2.37E-3**	**1.33E-3**	**2.09E-4**	**1.67E-3**	**5.52E-4**
PCB-083	mg/kg			< 5.40E-6 U	< 3.54E-6 U	< 2.76E-6 U	< 4.89E-6 U	< 4.27E-6 U
PCB-084/092	mg/kg			**9.34E-3**	**5.41E-3**	**9.27E-4**	**7.34E-3**	**2.11E-3**
PCB-085/116	mg/kg			**2.43E-3**	**1.42E-3**	**4.56E-4**	**4.40E-3**	**3.04E-3**
PCB-086	mg/kg			< 8.69E-6 U	< 5.69E-6 U	< 4.44E-6 U	< 7.87E-6 U	< 6.87E-6 U
PCB-087/117/125	mg/kg			**4.60E-3**	**3.34E-3**	**5.61E-4**	**6.49E-3**	**1.54E-3**
PCB-088/091	mg/kg			**3.49E-3**	**1.87E-3**	**3.72E-4**	**3.62E-3**	**1.47E-3**
PCB-089	mg/kg			**2.79E-4**	**1.22E-4**	**1.41E-5**	**7.73E-5**	**2.47E-5**
PCB-090/101	mg/kg			**1.47E-2**	**9.89E-3**	**1.61E-3**	**1.74E-2**	**4.20E-3**
PCB-093	mg/kg			< 8.76E-6 U	< 5.92E-6 U	< 4.00E-6 U	< 7.08E-6 U	< 6.22E-6 U
PCB-094	mg/kg			**1.01E-4**	**5.32E-5**	**9.48E-6 J**	**8.89E-5**	**3.18E-5**
PCB-095/098/102	mg/kg			**1.89E-2**	**1.12E-2**	**1.83E-3**	**1.58E-2**	**4.54E-3**
PCB-096	mg/kg			**1.89E-4**	**8.66E-5**	**1.49E-5**	**1.48E-4**	**5.82E-5**
PCB-097	mg/kg			**4.49E-3**	**2.85E-3**	**4.19E-4**	**4.84E-3**	**1.06E-3**
PCB-099	mg/kg			**5.23E-3**	**3.19E-3**	**6.97E-4**	**7.45E-3**	**3.69E-3**
PCB-100	mg/kg			**4.29E-5**	**2.45E-5**	**6.13E-6 J**	< 2.44E-5 U	**1.14E-5 J**
PCB-103	mg/kg			**9.73E-5**	**4.68E-5**	< 5.59E-6 U	**6.99E-5**	**1.67E-5**
PCB-104	mg/kg			< 5.47E-6 U	< 3.48E-6 U	< 2.56E-6 U	< 4.40E-6 U	< 3.94E-6 U
PCB-105	mg/kg			**2.37E-3**	**2.19E-3**	**5.44E-4**	**4.28E-3**	**2.54E-3**
PCB-106/118	mg/kg			**7.82E-3**	**5.68E-3**	**1.31E-3**	**1.21E-2**	**6.72E-3**
PCB-107/109	mg/kg			**5.16E-4**	**4.82E-4**	**1.17E-4**	**9.35E-4**	**4.65E-4**
PCB-108/112	mg/kg			**9.69E-4**	**5.45E-4**	**8.72E-5**	**6.70E-4**	**1.57E-4**
PCB-110	mg/kg			**2.67E-2**	**1.46E-2**	**4.78E-3**	**4.08E-2**	**1.72E-2**
PCB-111/115	mg/kg			**3.37E-4**	**1.63E-4**	**2.75E-5**	**2.36E-4**	< 7.13E-5 U
PCB-113	mg/kg			< 6.12E-6 U	< 3.79E-6 U	**6.47E-6 J**	< 4.89E-6 U	< 5.02E-6 U
PCB-114	mg/kg			**1.25E-4**	**1.29E-4**	**2.81E-5**	**1.44E-4**	**1.09E-4**
PCB-119	mg/kg			**2.43E-4**	**1.35E-4**	**3.63E-5**	**3.74E-4**	**1.77E-4**
PCB-120	mg/kg			**4.91E-5**	**2.33E-5**	**1.55E-5**	**8.19E-5**	**4.47E-5**
PCB-121	mg/kg			< 5.28E-6 U	< 3.57E-6 U	< 2.41E-6 U	< 4.27E-6 U	< 3.75E-6 U
PCB-122	mg/kg			**1.74E-4**	**1.14E-4**	**3.12E-5**	**2.23E-4**	**1.54E-4**
PCB-123	mg/kg			**2.51E-4**	**1.35E-4**	**4.11E-5**	**3.06E-4**	**1.57E-4**
PCB-124	mg/kg			**7.45E-4**	**4.13E-4**	**1.26E-4**	**8.43E-4**	**4.63E-4**
PCB-126	mg/kg			**1.12E-4**	**6.37E-5**	**3.75E-5**	**1.63E-4**	**8.19E-5**
PCB-127	mg/kg			< 7.30E-6 U	< 2.74E-6 U	< 4.98E-6 U	< 6.76E-6 U	< 6.19E-6 U
PCB-128/162	mg/kg			**4.86E-3**	**2.55E-3**	**1.48E-3**	**6.56E-3**	**6.06E-3**
PCB-129	mg/kg			**1.47E-3**	**7.85E-4**	**3.41E-4**	**1.79E-3**	**1.22E-3**
PCB-130	mg/kg			**2.61E-3**	**1.38E-3**	**7.02E-4**	**3.21E-3**	**2.36E-3**
PCB-131	mg/kg			< 2.64E-5 U	< 5.96E-6 U	< 8.65E-6 U	< 2.09E-5 U	< 5.93E-6 U
PCB-131/133	mg/kg							
PCB-132/161	mg/kg			**1.02E-2**	**4.75E-3**	**2.56E-3**	**1.26E-2**	**8.74E-3**
PCB-133/142	mg/kg			**8.82E-4**	**5.12E-4**	**2.38E-4**	**1.07E-3**	**6.96E-4**
PCB-134/143	mg/kg			**1.72E-3**	**8.33E-4**	**4.61E-4**	**2.23E-3**	**1.50E-3**
PCB-135	mg/kg			**4.58E-3**	**2.01E-3**	**1.38E-3**	**6.78E-3**	**4.22E-3**
PCB-136	mg/kg			**4.50E-3**	**1.88E-3**	**1.11E-3**	**6.41E-3**	**3.71E-3**
PCB-137	mg/kg			**1.46E-3**	**8.35E-4**	**3.54E-4**	**2.12E-3**	**2.13E-3**
PCB-138/163/164	mg/kg			**3.30E-2**	**1.42E-2**	**9.62E-3**	**4.82E-2**	**3.32E-2**
PCB-139/149	mg/kg			**3.05E-2**	**1.13E-2**	**8.35E-3**	**4.64E-2**	**2.49E-2**
PCB-140	mg/kg			**1.89E-4**	**6.42E-5**	**5.33E-5**	**2.35E-4**	**1.44E-4**
PCB-141	mg/kg			**7.35E-3**	**2.78E-3**	**1.95E-3**	**1.10E-2**	**5.29E-3**
PCB-142	mg/kg							
PCB-144	mg/kg			**1.93E-3**	**6.92E-4**	**3.74E-4**	**2.52E-3**	**1.02E-3**
PCB-145	mg/kg			**1.02E-5 J**	**8.23E-6 J**	< 3.32E-6 U	**1.17E-5 J**	**9.58E-6 J**
PCB-146/165	mg/kg			**4.59E-3**	**2.05E-3**	**1.43E-3**	**6.38E-3**	**4.27E-3**
PCB-147	mg/kg			**5.69E-4**	**3.17E-4**	**1.64E-4**	**8.45E-4**	**6.62E-4**
PCB-148	mg/kg			< 1.04E-5 U	< 5.22E-6 U	< 4.44E-6 U	< 9.26E-6 U	< 6.24E-6 U
PCB-150	mg/kg			**4.39E-5**	**1.33E-5**	**1.08E-5 J**	**5.63E-5**	**2.79E-5**
PCB-151	mg/kg			**8.27E-3**	**3.01E-3**	**2.36E-3**	**1.34E-2**	**6.55E-3**
PCB-152	mg/kg			**2.86E-5**	**1.20E-5 J**	**7.36E-6 J**	**2.97E-5**	**2.53E-5**
PCB-153	mg/kg			**2.69E-2**	**1.08E-2**	**7.52E-3**	**4.34E-2**	**2.22E-2**
PCB-154	mg/kg			**2.49E-4**	**1.01E-4**	**6.55E-5**	**3.25E-4**	**1.65E-4**
PCB-155	mg/kg			< 7.12E-6 U	< 3.56E-6 U	< 3.03E-6 U	< 6.32E-6 U	< 4.26E-6 U
PCB-156	mg/kg			**1.44E-3**	**9.98E-4**	**4.20E-4**	**2.74E-3**	**1.38E-3**
PCB-157	mg/kg			**6.62E-4**	**3.89E-4**	**1.79E-4**	**9.35E-4**	**8.20E-4**
PCB-158/160	mg/kg			**3.70E-3**	**1.69E-3**	**9.30E-4**	**5.16E-3**	**3.52E-3**
PCB-159	mg/kg			**3.69E-4**	< 3.94E-6 U	< 5.89E-6 U	< 1.21E-5 U	< 9.05E-6 U
PCB-166	mg/kg			**9.74E-5**	**6.36E-5**	**2.35E-5**	**8.47E-5**	**6.60E-5**
PCB-167	mg/kg			**1.34E-3**	**6.56E-4**	**3.68E-4**	**1.79E-3**	**1.25E-3**
PCB-168	mg/kg			**2.69E-5**	**1.38E-5**	**1.00E-5 J**	**3.79E-5**	**2.61E-5**
PCB-169	mg/kg			**1.70E-5**	**8.68E-6 J**	**4.68E-6 J**	**1.89E-5**	< 5.09E-6 U
PCB-170	mg/kg			**1.10E-2**	**3.19E-3**	**3.97E-3**	**1.63E-2**	**8.55E-3**
PCB-171	mg/kg			**2.96E-3**	**8.66E-4**	**1.07E-3**	**4.30E-3**	**2.42E-3**

Table I.6.B.2. Individual PCB Congeners and Co-Located Aroclors in Vadose Soil

South Park Marina Site, Seattle, Washington

			Location	SS-22	SS-23	SS-24	SS-25	SS-26
			Sample Date	02/08/16	02/08/16	02/10/16	02/08/16	02/08/16
			Sample	SPM-SS-22-02082016	SPM-SS-23-02082016	SPM-SS-24-02102016	SPM-SS-25-02082016	SPM-SS-26-02082016
Analyte	Unit	Proposed RI CUL	Basis of CUL					
PCB-172	mg/kg			**2.02E-3**	**5.46E-4**	**7.81E-4**	**3.01E-3**	**1.57E-3**
PCB-173	mg/kg			**2.90E-4**	**9.70E-5**	**9.62E-5**	**3.92E-4**	**2.23E-4**
PCB-174	mg/kg			**1.31E-2**	**3.86E-3**	**4.86E-3**	**2.08E-2**	**1.02E-2**
PCB-175	mg/kg			**5.87E-4**	**1.40E-4**	**1.88E-4**	**8.83E-4**	**4.03E-4**
PCB-176	mg/kg			**1.55E-3**	**4.80E-4**	**4.83E-4**	**2.55E-3**	**1.13E-3**
PCB-177	mg/kg			**7.17E-3**	**2.03E-3**	**2.73E-3**	**1.07E-2**	**5.47E-3**
PCB-178	mg/kg			**2.33E-3**	**6.68E-4**	**8.86E-4**	**4.03E-3**	**1.72E-3**
PCB-179	mg/kg			**5.17E-3**	**1.65E-3**	**1.77E-3**	**9.03E-3**	**3.94E-3**
PCB-180	mg/kg			**2.70E-2**	**7.49E-3**	**1.01E-2**	**4.66E-2**	**2.09E-2**
PCB-181	mg/kg			< 1.10E-5 U	< 4.68E-6 U	< 1.58E-6 U	< 5.04E-6 U	< 6.91E-6 U
PCB-182/187	mg/kg			**1.45E-2**	**4.28E-3**	**5.33E-3**	**2.77E-2**	**1.07E-2**
PCB-183	mg/kg			**6.64E-3**	**1.89E-3**	**2.29E-3**	**1.18E-2**	**5.09E-3**
PCB-184	mg/kg			**1.28E-5**	< 4.72E-6 U	**3.44E-6 J**	< 1.52E-5 U	**5.61E-6 J**
PCB-185	mg/kg			**1.35E-3**	**4.19E-4**	**5.21E-4**	**2.59E-3**	**1.04E-3**
PCB-186	mg/kg			< 8.11E-6 U	< 3.52E-6 U	< 1.16E-6 U	< 3.92E-6 U	< 4.93E-6 U
PCB-188	mg/kg			**2.13E-5**	< 2.52E-6 U	**8.16E-6 J**	**2.89E-5**	< 1.36E-5 U
PCB-189	mg/kg			**4.04E-4**	**1.19E-4**	**1.37E-4**	**5.92E-4**	**3.48E-4**
PCB-190	mg/kg			**2.18E-3**	**6.46E-4**	**7.65E-4**	**3.68E-3**	**1.65E-3**
PCB-191	mg/kg			**4.52E-4**	**1.32E-4**	**1.58E-4**	**6.81E-4**	**3.66E-4**
PCB-192	mg/kg			< 8.51E-6 U	< 3.64E-6 U	< 1.23E-6 U	< 3.91E-6 U	< 5.36E-6 U
PCB-193	mg/kg			**1.24E-3**	**3.26E-4**	**4.89E-4**	**1.98E-3**	**9.60E-4**
PCB-194	mg/kg			**4.92E-3**	**1.59E-3**	**1.67E-3**	**1.19E-2**	**3.81E-3**
PCB-195	mg/kg			**2.17E-3**	**6.73E-4**	**8.48E-4**	**4.35E-3**	**1.70E-3**
PCB-196/203	mg/kg			**7.18E-3**	**2.32E-3**	**2.52E-3**	**2.19E-2**	**5.11E-3**
PCB-197	mg/kg			**2.19E-4**	**6.50E-5**	**7.48E-5**	**6.07E-4**	**1.64E-4**
PCB-198	mg/kg			**2.72E-4**	**9.17E-5**	**1.20E-4**	**9.11E-4**	**1.78E-4**
PCB-199	mg/kg			**6.67E-3**	**2.34E-3**	**2.55E-3**	**1.89E-2**	**4.66E-3**
PCB-200	mg/kg			**8.49E-4**	**2.78E-4**	**2.96E-4**	**2.42E-3**	**6.04E-4**
PCB-201	mg/kg			**8.00E-4**	**2.76E-4**	**2.83E-4**	**2.38E-3**	**5.91E-4**
PCB-202	mg/kg			**1.06E-3**	**4.80E-4**	**3.92E-4**	**3.52E-3**	**8.09E-4**
PCB-204	mg/kg			< 7.73E-6 U	< 4.10E-6 U	< 4.97E-6 U	< 6.66E-6 U	< 6.34E-6 U
PCB-205	mg/kg			**2.42E-4**	**7.52E-5**	**7.56E-5**	**5.75E-4**	**1.90E-4**
PCB-206	mg/kg			**1.39E-3**	**1.05E-3**	**7.06E-4**	**7.87E-3**	**1.33E-3**
PCB-207	mg/kg			**1.75E-4**	**1.09E-4**	**8.67E-5**	**1.06E-3**	**1.70E-4**
PCB-208	mg/kg			**2.49E-4**	**2.80E-4**	**1.70E-4**	**1.65E-3**	**2.63E-4**
PCB-209	mg/kg			**3.83E-4**	**1.56E-4**	**4.79E-4**	**9.11E-4**	**1.61E-4**
Total Decachlorobiphenyls	mg/kg			**3.83E-4**	**1.56E-4**	**4.79E-4**	**9.11E-4**	**1.61E-4**
Total Dichlorobiphenyls	mg/kg			**9.57E-4**	**6.30E-4**	**7.07E-5 J**	**2.64E-4**	**1.86E-4 J**
Total Heptachlorobiphenyls	mg/kg			**1.00E-1**	**2.88E-2**	**3.66E-2**	**1.68E-1**	**7.67E-2**
Total Hexachlorobiphenyls	mg/kg			**1.54E-1**	**6.47E-2**	**4.25E-2**	**2.26E-1**	**1.36E-1**
Total Monochlorobiphenyls	mg/kg			**3.75E-5**	**4.19E-5**	**2.64E-5**	**1.67E-4**	**1.36E-4**
Total Nonachlorobiphenyls	mg/kg			**1.82E-3**	**1.44E-3**	**9.63E-4**	**1.06E-2**	**1.76E-3**
Total Octachlorobiphenyls	mg/kg			**2.44E-2**	**8.19E-3**	**8.83E-3**	**6.75E-2**	**1.78E-2**
Total Pentachlorobiphenyls	mg/kg			**1.07E-1**	**6.55E-2**	**1.43E-2**	**1.31E-1**	**5.06E-2 J**
Total Tetrachlorobiphenyls	mg/kg			**2.19E-2**	**1.47E-2**	**1.25E-3**	**6.95E-3 J**	**3.03E-3**
Total Trichlorobiphenyls	mg/kg			**6.13E-3**	**1.50E-3**	**3.24E-4 J**	**6.00E-4 J**	**4.64E-4**
Total PCB Congeners (ND = 0)	mg/kg	1.8E-4	SL-3, PQL Adj.	**4.16E-1 J**	**1.86E-1 J**	**1.05E-1 J**	**6.11E-1 J**	**2.87E-1 J**
Total PCB TEQ (ND = 0)	mg/kg	7.0E-7	SL-3, PQL Adj.	**1.19E-5**	**6.79E-6 J**	**3.95E-6 J**	**1.72E-5**	**8.41E-6 J**

Notes:

Bold = detected

Gray Shaded = Nondetect result has an RDL that exceeds the Proposed RI CUL

Blue Shaded = Detected result exceeded the Proposed RI CUL

Proposed RI CUL = Proposed Remedial Investigation Cleanup Level

mg/kg = milligrams per kilogram

U = Analyte not detected at or above the RDL shown

J = Result value estimated

UJ = Analyte not detected, and the RDL shown is an estimate

(ND = 0) = calculated using zero for nondetected components

TEQ = Toxic Equivalency

A = One or more of the nine common Aroclor groups (1016, 1221, 1232, 1242, 1248, 1254, 1260, 1262, and 1268) were not reported, and the Total PCB Aroclors (ND = 0) sum assumes the missing components were nondetect.

Total PCB Aroclors (ND = 0) are the sum of Aroclors available, with nondetects = 0, unless all Aroclors were not detected, in which case the Total PCB Aroclors concentration is shown as nondetect at the maximum RDL for any individual Aroclor.

RDL = Reported Detection Limit

Table I.6.B.2. Individual PCB Congeners and Co-Located Aroclors in Vadose Soil

South Park Marina Site, Seattle, Washington

			Location	SS-27	SS-33	SS-38	SS-39
			Sample Date	02/08/16	11/17/17	11/17/17	11/17/17
			Sample	SPM-SS-27-02082016	SS-33-0-1.5	SS-38-0-1	SS-39-0-1.25
Analyte	Unit	Proposed RI CUL	Basis of CUL				
Polychlorinated Biphenyl Aroclors							
Aroclor 1016	mg/kg			< 0.004 U	< 5.4 U	< 5.5 U	< 1.1 U
Aroclor 1221	mg/kg			< 0.004 U	< 5.4 U	< 5.5 U	< 1.1 U
Aroclor 1232	mg/kg			< 0.004 U	< 5.4 U	< 5.5 U	< 1.1 U
Aroclor 1242	mg/kg			< 0.004 U	< 5.4 U	< 5.5 U	< 1.1 U
Aroclor 1248	mg/kg			< 0.004 U	< 5.4 U	< 5.5 U	< 1.1 U
Aroclor 1254	mg/kg			< 0.004 U	< 5.4 U	**12**	**10**
Aroclor 1260	mg/kg			**0.041**	**29**	**54**	< 1.1 U
Aroclor 1262	mg/kg			< 0.004 U			
Aroclor 1268	mg/kg			< 0.004 U			
Total PCB Aroclors (ND = 0)	mg/kg	0.036	SL-3, PQL Adj.	**0.041**	**29 A**	**66 A**	**10 A**
Polychlorinated Biphenyl Congeners							
PCB-001	mg/kg			< 6.22E-6 U	**3.17E-4**	**1.12E-4 J**	**1.94E-4**
PCB-002	mg/kg			< 6.20E-6 U	< 2.39E-4 U	**3.29E-5 J**	**5.50E-5 J**
PCB-003	mg/kg			**7.50E-6 J**	**1.65E-4 J**	**1.02E-4 J**	**2.64E-4**
PCB-004/010	mg/kg			< 3.05E-5 U	< 4.78E-4 U	< 2.41E-4 U	< 2.36E-4 U
PCB-005/008	mg/kg			< 2.39E-5 U	< 4.78E-4 U	< 2.41E-4 U	**3.82E-4**
PCB-006	mg/kg			< 2.45E-5 U	< 2.39E-4 U	< 1.21E-4 U	< 1.18E-4 U
PCB-007/009	mg/kg			< 2.42E-5 U	< 4.78E-4 U	< 2.41E-4 U	< 2.36E-4 U
PCB-011	mg/kg			< 2.30E-5 U	< 2.39E-4 U	< 1.21E-4 U	< 1.18E-4 U
PCB-012/013	mg/kg			< 2.33E-5 U	< 4.78E-4 U	< 2.41E-4 U	< 2.36E-4 U
PCB-014	mg/kg			< 2.01E-5 U	< 2.39E-4 U	< 1.21E-4 U	< 1.18E-4 U
PCB-015	mg/kg			< 2.05E-5 U	**6.88E-4**	**7.09E-4**	**8.78E-4**
PCB-016/032	mg/kg			< 2.62E-6 U	**1.49E-4 J**	**1.47E-4 J**	**4.81E-4**
PCB-017	mg/kg			< 3.25E-6 U	**7.69E-5 J**	**7.20E-5 J**	**2.27E-4**
PCB-018	mg/kg			< 6.48E-6 U	**2.41E-4**	**2.02E-4**	**6.98E-4**
PCB-019	mg/kg			< 5.58E-6 U	< 2.39E-4 U	**4.50E-5 J**	**5.38E-4**
PCB-020/021/033	mg/kg			**7.27E-6 J**	**1.89E-4 J**	**2.43E-4 J**	**6.88E-4**
PCB-022	mg/kg			< 4.77E-6 U	**1.11E-4 J**	**1.35E-4**	**3.27E-4**
PCB-023	mg/kg			< 4.03E-6 U	< 2.39E-4 U	< 1.21E-4 U	< 1.18E-4 U
PCB-024/027	mg/kg			< 3.35E-6 U	< 4.78E-4 U	< 2.41E-4 U	**8.47E-5 J**
PCB-025	mg/kg			< 4.44E-6 U	< 2.39E-4 U	**3.14E-5 J**	**4.96E-5 J**
PCB-026	mg/kg			< 3.94E-6 U	< 2.39E-4 U	**5.88E-5 J**	**1.37E-4**
PCB-028	mg/kg			< 9.45E-6 U	**2.86E-4**	**3.63E-4**	**6.43E-4**
PCB-029	mg/kg			< 4.03E-6 U	< 2.39E-4 U	< 1.21E-4 U	< 1.18E-4 U
PCB-030	mg/kg			< 3.52E-6 U	< 2.39E-4 U	< 1.21E-4 U	< 1.18E-4 U
PCB-031	mg/kg			**1.05E-5 J**	**2.86E-4**	**3.19E-4**	**7.41E-4**
PCB-034	mg/kg			< 3.75E-6 U	< 2.39E-4 U	< 1.21E-4 U	< 1.18E-4 U
PCB-035	mg/kg			< 3.95E-6 U	< 2.39E-4 U	< 1.21E-4 U	**2.61E-5 J**
PCB-036	mg/kg			< 3.82E-6 U	< 2.39E-4 U	< 1.21E-4 U	< 1.18E-4 U
PCB-037	mg/kg			**1.10E-5 J**	**3.85E-4**	**3.29E-4**	**6.62E-4**
PCB-038	mg/kg			< 3.99E-6 U	**3.77E-5 J**	< 1.21E-4 U	**1.72E-4**
PCB-039	mg/kg			< 3.93E-6 U	< 2.39E-4 U	< 1.21E-4 U	< 1.18E-4 U
PCB-040	mg/kg			**7.71E-6 J**	**9.65E-4**	**4.92E-4**	**3.67E-3**
PCB-041/064/071/072	mg/kg			**7.25E-5**	**6.32E-3**	**1.31E-3**	**1.30E-2**
PCB-042	mg/kg						
PCB-042/059	mg/kg			**1.43E-5 J**	**1.68E-3**	**4.92E-4**	**6.39E-3**
PCB-043/049	mg/kg			**6.90E-5**	**5.32E-3**	**2.49E-3**	**4.33E-2**
PCB-044	mg/kg			**1.25E-4**	**7.95E-3**	**3.59E-3**	**6.48E-2**
PCB-045	mg/kg			**7.11E-6 J**	**6.11E-4**	**4.83E-4**	**3.58E-3**
PCB-046	mg/kg			**5.26E-6 J**	**1.68E-4 J**	**1.80E-4**	**1.50E-3**
PCB-047	mg/kg			**1.32E-5**	**1.27E-3**	**2.70E-4**	**6.82E-3**
PCB-048/075	mg/kg			**7.53E-6 J**	**4.36E-4 J**	**1.22E-4 J**	**7.91E-4**
PCB-050	mg/kg			< 2.66E-6 U	< 2.39E-4 U	< 1.21E-4 U	< 1.18E-4 U
PCB-051	mg/kg			< 4.34E-6 U	**2.02E-4 J**	**1.52E-4**	**1.15E-3**
PCB-052/069	mg/kg			**3.04E-4**	**2.65E-2**	**1.42E-2**	**2.00E-1**
PCB-053	mg/kg			**2.06E-5**	**9.27E-4**	**9.56E-4**	**6.76E-3**
PCB-054	mg/kg			< 2.02E-6 U	< 2.39E-4 U	< 1.21E-4 U	**6.59E-5 J**
PCB-055	mg/kg			**1.15E-5 J**	**6.13E-4**	**4.91E-4**	**2.22E-3**
PCB-056/060	mg/kg			**5.06E-5**	**3.00E-3**	**7.73E-4**	**5.17E-3**
PCB-057	mg/kg			< 1.61E-6 U	< 2.39E-4 U	**4.26E-5 J**	**7.16E-5 J**
PCB-058	mg/kg			< 1.58E-6 U	< 2.39E-4 U	< 1.21E-4 U	**1.04E-4 J**
PCB-061/070	mg/kg			**3.08E-4**	**6.10E-3**	**2.91E-3**	**8.58E-2**
PCB-062	mg/kg			< 1.83E-6 U	< 2.39E-4 U	< 1.21E-4 U	< 1.18E-4 U
PCB-063	mg/kg			< 1.55E-6 U	< 2.39E-4 U	< 1.21E-4 U	**6.98E-5 J**
PCB-065	mg/kg			< 1.89E-6 U	< 2.39E-4 U	< 1.21E-4 U	< 1.18E-4 U
PCB-066/076	mg/kg			**1.09E-4**	**2.61E-3**	**7.15E-4**	**2.20E-2**
PCB-067	mg/kg			< 1.65E-6 U	< 2.39E-4 U	< 1.21E-4 U	< 1.18E-4 U
PCB-068	mg/kg			< 1.54E-6 U	< 2.39E-4 U	**2.89E-5 J**	**1.44E-4**
PCB-073	mg/kg			< 1.89E-6 U	< 2.39E-4 U	< 1.21E-4 U	< 1.18E-4 U
PCB-074	mg/kg			**4.38E-5**	**8.06E-4**	**4.66E-4**	**1.50E-3**
PCB-077	mg/kg			**3.29E-5**	**2.09E-3**	**7.23E-4**	**3.46E-3**
PCB-078	mg/kg			< 1.60E-6 U	< 2.39E-4 U	< 1.21E-4 U	< 1.18E-4 U
PCB-079	mg/kg			**3.39E-5**	**1.36E-3**	**9.68E-4**	**4.13E-3**

Table I.6.B.2. Individual PCB Congeners and Co-Located Aroclors in Vadose Soil

South Park Marina Site, Seattle, Washington

			Location	SS-27	SS-33	SS-38	SS-39
			Sample Date	02/08/16	11/17/17	11/17/17	11/17/17
			Sample	SPM-SS-27-02082016	SS-33-0-1.5	SS-38-0-1	SS-39-0-1.25
Analyte	Unit	Proposed RI CUL	Basis of CUL				
PCB-080	mg/kg			< 1.38E-6 U	< 2.39E-4 U	< 1.21E-4 U	< 1.18E-4 U
PCB-081	mg/kg			**6.23E-6 J**	**1.84E-3**	**7.97E-4**	**1.37E-3**
PCB-082	mg/kg			**2.89E-4**	**2.01E-2**	**1.23E-2**	**6.06E-2**
PCB-083	mg/kg			< 4.55E-6 U	< 2.39E-4 U	< 1.21E-4 U	< 1.18E-4 U
PCB-084/092	mg/kg			**1.24E-3**	**2.74E-1**	**1.88E-1**	**2.44E-1**
PCB-085/116	mg/kg			**7.38E-4**	**2.40E-2**	**1.55E-2**	**8.76E-2**
PCB-086	mg/kg			< 7.32E-6 U	< 2.39E-4 U	< 1.21E-4 U	< 1.18E-4 U
PCB-087/117/125	mg/kg			**9.14E-4**	**2.32E-1**	**1.22E-1**	**2.24E-1**
PCB-088/091	mg/kg			**4.41E-4**	**1.93E-2**	**1.51E-2**	**7.21E-2**
PCB-089	mg/kg			**1.81E-5**	**1.23E-3**	**8.97E-4**	**3.64E-3**
PCB-090/101	mg/kg			**2.65E-3**	**2.02E+0 J**	**1.23E+0 J**	**5.73E-1**
PCB-093	mg/kg			< 7.84E-6 U	< 2.39E-4 U	< 1.21E-4 U	< 1.18E-4 U
PCB-094	mg/kg			**1.67E-5**	**6.78E-4**	**4.95E-4**	**1.61E-3**
PCB-095/098/102	mg/kg			**2.38E-3**	**1.34E+0**	**9.79E-1**	**4.49E-1**
PCB-096	mg/kg			**1.40E-5**	**1.05E-3**	**8.37E-4**	**2.76E-3**
PCB-097	mg/kg			**5.29E-4**	**8.17E-2**	**4.61E-2**	**1.65E-1**
PCB-099	mg/kg			**1.58E-3**	**6.43E-2**	**4.40E-2**	**2.37E-1**
PCB-100	mg/kg			**8.27E-6 J**	< 2.39E-4 U	**1.67E-4**	**8.60E-4**
PCB-103	mg/kg			**9.97E-6 J**	**1.72E-3**	**1.50E-3**	**2.17E-3**
PCB-104	mg/kg			< 4.62E-6 U	< 2.39E-4 U	< 1.21E-4 U	< 1.18E-4 U
PCB-105	mg/kg			**7.66E-4**	**1.40E-1**	**6.35E-2**	**1.09E-1**
PCB-106/118	mg/kg			**2.32E-3**	**5.14E-1**	**2.13E-1**	**3.62E-1**
PCB-107/109	mg/kg			**2.01E-4**	**2.66E-2**	**1.15E-2**	**2.41E-2**
PCB-108/112	mg/kg			**1.10E-4**	**7.45E-3**	**4.49E-3**	**2.19E-2**
PCB-110	mg/kg			**5.76E-3**	**1.00E+0 J**	**5.78E-1 J**	**5.97E-1 J**
PCB-111/115	mg/kg			**4.63E-5**	**1.98E-3**	< 2.41E-4 U	**4.85E-3**
PCB-113	mg/kg			< 5.49E-6 U	< 2.39E-4 U	< 1.21E-4 U	< 1.18E-4 U
PCB-114	mg/kg			**3.98E-5**	**1.21E-2**	**6.97E-3**	**2.39E-3**
PCB-119	mg/kg			**4.24E-5**	**2.02E-3**	**8.14E-4**	**5.68E-3**
PCB-120	mg/kg			**1.05E-5 J**	**1.09E-2**	**7.95E-3**	**4.01E-4**
PCB-121	mg/kg			< 4.73E-6 U	< 2.39E-4 U	< 1.21E-4 U	< 1.18E-4 U
PCB-122	mg/kg			**4.07E-5**	**2.17E-3**	**1.48E-3**	**6.60E-3**
PCB-123	mg/kg			**9.51E-5**	**1.32E-3**	**9.45E-4**	**6.95E-3**
PCB-124	mg/kg			**2.27E-4**	**6.47E-2**	**4.75E-2**	**2.17E-2**
PCB-126	mg/kg			**3.38E-5**	**1.23E-2**	**7.79E-3**	**2.12E-3**
PCB-127	mg/kg			< 4.70E-6 U	< 2.39E-4 U	< 1.21E-4 U	< 1.18E-4 U
PCB-128/162	mg/kg			**1.61E-3**	**3.60E-1**	**2.38E-1**	**8.82E-2**
PCB-129	mg/kg			**4.16E-4**	**9.12E-2**	**6.32E-2**	**3.03E-2**
PCB-130	mg/kg			**6.86E-4**	**2.07E-1**	**1.52E-1**	**3.24E-2**
PCB-131	mg/kg			< 1.20E-5 U			
PCB-131/133	mg/kg				**1.07E-1**	**8.03E-2**	**1.42E-2**
PCB-132/161	mg/kg			**2.22E-3**	**1.65E+0**	**1.03E+0 J**	**1.36E-1**
PCB-133/142	mg/kg			**1.87E-4**			
PCB-134/143	mg/kg			**3.75E-4**	**2.30E-1**	**1.71E-1**	**2.79E-2**
PCB-135	mg/kg			**9.51E-4**	**9.81E-1 J**	**6.99E-1 J**	**4.78E-2**
PCB-136	mg/kg			**8.42E-4**	**9.98E-1 J**	**7.55E-1 J**	**4.60E-2**
PCB-137	mg/kg			**5.55E-4**	**2.92E-2**	**1.91E-2**	**3.23E-2**
PCB-138/163/164	mg/kg			**8.40E-3**	**6.13E+0 J**	**3.92E+0 J**	**4.46E-1**
PCB-139/149	mg/kg			**5.99E-3**	**6.55E+0 J**	**4.41E+0 J**	**2.79E-1**
PCB-140	mg/kg			**4.85E-5**	**7.04E-3**	**5.18E-3**	**1.98E-3**
PCB-141	mg/kg			**1.52E-3**	**1.97E+0 J**	**1.28E+0 J**	**7.08E-2**
PCB-142	mg/kg				< 2.39E-4 U	< 1.21E-4 U	**1.15E-4 J**
PCB-144	mg/kg			**2.89E-4**	**3.60E-1**	**2.83E-1**	**1.54E-2**
PCB-145	mg/kg			< 8.27E-6 U	**1.31E-4 J**	**1.72E-4**	**1.87E-4**
PCB-146/165	mg/kg			**1.06E-3**	**9.12E-1**	**6.36E-1**	**4.94E-2**
PCB-147	mg/kg			**1.91E-4**	**9.83E-3**	**7.17E-3**	**1.09E-2**
PCB-148	mg/kg			< 1.11E-5 U	< 2.39E-4 U	< 1.21E-4 U	**1.14E-4 J**
PCB-150	mg/kg			**1.05E-5 J**	**2.81E-3**	**2.79E-3**	**4.21E-4**
PCB-151	mg/kg			**1.54E-3**	**2.36E+0 J**	**1.74E+0 J**	**5.56E-2**
PCB-152	mg/kg			< 7.74E-6 U	**5.18E-4**	**4.80E-4**	**5.10E-4**
PCB-153	mg/kg			**6.00E-3**	**7.07E+0 J**	**4.29E+0 J**	**3.15E-1**
PCB-154	mg/kg			**6.17E-5**	**1.33E-2**	**1.31E-2**	**3.01E-3**
PCB-155	mg/kg			< 7.55E-6 U	< 2.39E-4 U	< 1.21E-4 U	< 1.18E-4 U
PCB-156	mg/kg			**6.96E-4**	**3.76E-1**	**1.84E-1**	**4.13E-2**
PCB-157	mg/kg			**2.30E-4**	**2.91E-2**	**2.03E-2**	**1.29E-2**
PCB-158/160	mg/kg			**9.63E-4**	**5.56E-1**	**3.58E-1**	**5.62E-2**
PCB-159	mg/kg			< 7.49E-6 U	< 2.39E-4 U	< 1.21E-4 U	< 1.18E-4 U
PCB-166	mg/kg			**3.69E-5**	**8.94E-4**	< 1.21E-4 U	**2.22E-3**
PCB-167	mg/kg			**3.77E-4**	**1.69E-1**	**1.16E-1**	**1.97E-2**
PCB-168	mg/kg			< 7.47E-6 U	< 2.39E-4 U	< 1.21E-4 U	**4.37E-4**
PCB-169	mg/kg			**4.07E-5**	**1.52E-3**	**1.48E-3**	< 1.18E-4 U
PCB-170	mg/kg			**2.15E-3**	**3.21E+0 J**	**2.11E+0 J**	**4.42E-2**
PCB-171	mg/kg			**5.76E-4**	**9.03E-1**	**5.95E-1 J**	**1.16E-2**

Table I.6.B.2. Individual PCB Congeners and Co-Located Aroclors in Vadose Soil

South Park Marina Site, Seattle, Washington

			Location	SS-27	SS-33	SS-38	SS-39
			Sample Date	02/08/16	11/17/17	11/17/17	11/17/17
			Sample	SPM-SS-27-02082016	SS-33-0-1.5	SS-38-0-1	SS-39-0-1.25
Analyte	Unit	Proposed RI CUL	Basis of CUL				
PCB-172	mg/kg			**4.01E-4**	**6.19E-1**	**4.21E-1**	**6.82E-3**
PCB-173	mg/kg			**6.08E-5**	**7.95E-2**	**5.47E-2**	**1.41E-3**
PCB-174	mg/kg			**2.49E-3**	**4.18E+0 J**	**2.68E+0 J**	**3.94E-2**
PCB-175	mg/kg			**9.76E-5**	**1.47E-1**	**1.07E-1**	**1.77E-3**
PCB-176	mg/kg			**2.76E-4**	**5.09E-1**	**3.24E-1**	**4.88E-3**
PCB-177	mg/kg			**1.31E-3**	**2.32E+0 J**	**1.53E+0 J**	**2.20E-2**
PCB-178	mg/kg			**4.43E-4**	**7.53E-1**	**4.91E-1 J**	**6.21E-3**
PCB-179	mg/kg			**9.19E-4**	**1.77E+0 J**	**1.12E+0 J**	**1.47E-2**
PCB-180	mg/kg			**5.32E-3**	**8.32E+0 J**	**5.12E+0 J**	**8.48E-2**
PCB-181	mg/kg			< 7.24E-6 U	< 2.39E-4 U	< 1.21E-4 U	< 1.18E-4 U
PCB-182/187	mg/kg			**2.86E-3**	**4.76E+0 J**	**3.01E+0 J**	**4.00E-2**
PCB-183	mg/kg			**1.30E-3**	**2.10E+0 J**	**1.32E+0 J**	**2.02E-2**
PCB-184	mg/kg			< 5.80E-6 U	**1.32E-3**	**1.01E-3**	**6.54E-5 J**
PCB-185	mg/kg			**2.50E-4**	**4.82E-1**	**3.15E-1**	**4.06E-3**
PCB-186	mg/kg			< 5.33E-6 U	< 2.39E-4 U	< 1.21E-4 U	< 1.18E-4 U
PCB-188	mg/kg			< 4.70E-6 U	**1.79E-3**	**1.51E-3**	**4.50E-5 J**
PCB-189	mg/kg			**9.01E-5**	**1.14E-1**	**7.80E-2**	**2.02E-3**
PCB-190	mg/kg			**4.29E-4**	**6.54E-1**	**4.39E-1**	**8.04E-3**
PCB-191	mg/kg			**9.61E-5**	**1.35E-1**	**9.21E-2**	**1.59E-3**
PCB-192	mg/kg			< 5.62E-6 U	< 2.39E-4 U	< 1.21E-4 U	< 1.18E-4 U
PCB-193	mg/kg			**2.58E-4**	**4.00E-1**	**2.64E-1**	**3.51E-3**
PCB-194	mg/kg			**1.16E-3**	**1.60E+0 J**	**1.03E+0 J**	**2.28E-2**
PCB-195	mg/kg			**4.91E-4**	**7.67E-1**	**4.95E-1 J**	**7.51E-3**
PCB-196/203	mg/kg			**1.61E-3**	**2.19E+0 J**	**1.37E+0 J**	**2.64E-2**
PCB-197	mg/kg			< 3.79E-5 U	**7.06E-2**	**4.44E-2**	**6.53E-4**
PCB-198	mg/kg			**7.74E-5**	**7.62E-2**	**5.59E-2**	**1.07E-3**
PCB-199	mg/kg			**1.50E-3**	**2.00E+0 J**	**1.23E+0 J**	**2.38E-2**
PCB-200	mg/kg			**1.91E-4**	**2.47E-1**	**1.57E-1**	**2.65E-3**
PCB-201	mg/kg			**1.74E-4**	**2.35E-1**	**1.48E-1**	**2.54E-3**
PCB-202	mg/kg			**2.57E-4**	**2.99E-1**	**1.90E-1**	**3.92E-3**
PCB-204	mg/kg			< 8.29E-6 U	**3.35E-4**	**2.32E-4**	< 1.18E-4 U
PCB-205	mg/kg			**6.29E-5**	**7.59E-2**	**4.94E-2**	**1.12E-3**
PCB-206	mg/kg			**6.25E-4**	**2.85E-1**	**1.87E-1**	**1.25E-2**
PCB-207	mg/kg			**8.56E-5**	**3.90E-2**	**2.37E-2**	**1.14E-3**
PCB-208	mg/kg			**1.52E-4**	**4.37E-2**	**2.75E-2**	**1.75E-3**
PCB-209	mg/kg			**7.09E-4**	**4.42E-3**	**2.96E-3**	**9.33E-4**
Total Decachlorobiphenyls	mg/kg			**7.09E-4**	**4.42E-3**	**2.96E-3**	**9.33E-4**
Total Dichlorobiphenyls	mg/kg			< 3.05E-5 U	**6.88E-4**	**7.09E-4**	**1.26E-3**
Total Heptachlorobiphenyls	mg/kg			**1.93E-2**	**3.15E+1**	**2.01E+1**	**3.17E-1**
Total Hexachlorobiphenyls	mg/kg			**3.53E-2**	**3.12E+1**	**2.05E+1**	**1.84E+0**
Total Monochlorobiphenyls	mg/kg			**7.50E-6 J**	**4.82E-4**	**2.46E-4**	**5.12E-4**
Total Nonachlorobiphenyls	mg/kg			**8.62E-4**	**3.68E-1**	**2.38E-1**	**1.54E-2**
Total Octachlorobiphenyls	mg/kg			**5.52E-3 J**	**7.56E+0**	**4.77E+0**	**9.25E-2**
Total Pentachlorobiphenyls	mg/kg			**2.05E-2**	**5.88E+0**	**3.60E+0**	**3.29E+0**
Total Tetrachlorobiphenyls	mg/kg			**1.24E-3 J**	**7.08E-2**	**3.27E-2**	**4.78E-1**
Total Trichlorobiphenyls	mg/kg			**2.88E-5 J**	**1.76E-3 J**	**1.94E-3 J**	**5.47E-3**
Total PCB Congeners (ND = 0)	mg/kg	1.8E-4	SL-3, PQL Adj.	**8.35E-2 J**	**7.65E+1 J**	**4.92E+1 J**	**6.04E+0 J**
Total PCB TEQ (ND = 0)	mg/kg	7.0E-7	SL-3, PQL Adj.	**4.67E-6 J**	**1.30E-3**	**8.38E-4**	**2.19E-4**

Notes:

Bold = detected

Gray Shaded = Nondetect result has an RDL that exceeds the Proposed RI CUL

Blue Shaded = Detected result exceeded the Proposed RI CUL

Proposed RI CUL = Proposed Remedial Investigation Cleanup Level

mg/kg = milligrams per kilogram

U = Analyte not detected at or above the RDL shown

J = Result value estimated

UJ = Analyte not detected, and the RDL shown is an estimate

(ND = 0) = calculated using zero for nondetected components

TEQ = Toxic Equivalency

A = One or more of the nine common Aroclor groups (1016, 1221, 1232, 1242, 1248, 1254, 1260, 1262, and 1268) were not reported, and the Total PCB Aroclors (ND = 0) sum assumes the missing components were nondetect.

Total PCB Aroclors (ND = 0) are the sum of Aroclors available, with nondetects = 0, unless all Aroclors were not detected, in which case the Total PCB Aroclors concentration is shown as nondetect at the maximum RDL for any individual Aroclor.

RDL = Reported Detection Limit

Table I.6.C.1. Individual PCB Aroclors in Saturated Soil

South Park Marina Site, Seattle, Washington

			Location	B-01	B-02	B-03	B-04	MW-04				MW-04D					
			Sample Date	11/17/17	11/17/17	11/17/17	11/17/17	03/04/21	03/04/21	03/04/21	03/04/21	09/22/22	09/22/22	09/22/22	09/22/22	09/22/22	09/22/22
			Sample	B-01-8.5-9.5	B-02-6.5-7	B-03-6.5-7	B-04-6.5-7	MW-4-10.5-11.5	MW-4-13.5-14.5	MW-4-18-20	MW-4-7-8	MW-04D-10-11	MW-04D-14-15	MW-04D-16-17	MW-04D-21-22	MW-04D-25-26	MW-04D-29-30
Analyte	Unit	Proposed RI CUL	Basis of CUL														
Polychlorinated Biphenyl Aroclors																	
Aroclor 1016	mg/kg			< 0.064 U	< 6.3 U	< 1.3 U	< 1.2 U	< 0.004 U	< 0.255 U	< 0.004 U	< 0.231 U	< 2 U	< 2 U	< 0.08 U	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1221	mg/kg			< 0.064 U	< 6.3 U	< 1.3 U	< 1.2 U	< 0.004 U	< 0.255 U	< 0.004 U	< 0.231 U	< 2 U	< 2 U	< 0.08 U	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1232	mg/kg			< 0.064 U	< 6.3 U	< 1.3 U	< 1.2 U	< 0.004 U	< 0.255 U	< 0.004 U	< 0.231 U	< 2 U	< 2 U	< 0.08 U	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1242	mg/kg			< 0.064 U	**15**	**3.6**	**2.3**	< 0.004 U	< 0.255 U	< 0.004 U	< 0.231 U	< 2 U	< 2 U	< 0.08 U	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1248	mg/kg			< 0.064 U	< 6.3 U	< 1.3 U	< 1.2 U	**0.0512**	< 0.255 U	< 0.004 U	**9.52**	< 2 U	< 2 U	< 0.08 U	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1254	mg/kg			< 0.064 U	**93 J**	**7**	**6**	**0.0787**	**3.91**	**0.0043**	**10.4**	**14**	**10**	**1.9**	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1260	mg/kg			< 0.064 U	**23**	**3**	**2.4**	**0.0409**	**1.87**	**0.0017 J**	**6.45**	< 2 U	< 2 U	**0.85**	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1262	mg/kg							< 0.004 U	< 0.255 U	< 0.004 U	< 0.231 U	< 2 U	< 2 U	< 0.08 U	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1268	mg/kg							< 0.004 U	< 0.255 U	< 0.004 U	< 0.231 U	< 2 U	< 2 U	< 0.08 U	< 0.004 U	< 0.004 U	< 0.004 U
Total PCB Aroclors (ND = 0)	mg/kg	0.036	SL-6, PQL Adj.	< 0.064 UA	**131 JA**	**13.6 A**	**10.7 A**	**0.171**	**5.78**	**0.006 J**	**26.4**	**14**	**10**	**2.75**	< 0.004 U	< 0.004 U	< 0.004 U

Notes:

Proposed RI CUL = Proposed Remedial Investigation Cleanup Level

Bold = detected

Gray Shaded = Nondetect result has an RDL that exceeds the Proposed RI CUL

Blue Shaded = Detected result exceeded the Proposed RI CUL

mg/kg = milligrams per kilogram

U = Analyte not detected at or above the RDL shown

J = Result value estimated

UJ = Analyte not detected, and the RDL shown is an estimate

A = One or more of the nine common Aroclor groups (1016, 1221, 1232, 1242, 1248, 1254, 1260, 1262, and 1268) were not reported, and the Total PCB Aroclors (ND = 0) sum assumes the missing components were nondetect.

Total PCB Aroclors (ND = 0) are the sum of Aroclors available, with nondetects = 0, unless all Aroclors were not detected, in which case the Total PCB Aroclors concentration is shown as nondetect at the maximum RDL for any individual Aroclor.

RDL = Reported Detection Limit

Table I.6.C.1. Individual PCB Aroclors in Saturated Soil

South Park Marina Site, Seattle, Washington

Location				MW-05					MW-05D							MW-06	
Sample Date				03/05/21	03/05/21	03/05/21	03/05/21	03/05/21	09/21/22	09/21/22	09/21/22	09/21/22	09/21/22	09/21/22	09/21/22	03/05/21	03/05/21
Sample				MW-5-15-16	MW-5-20-22.5	MW-5-26.5-28	MW-5-6-7	MW-5-8-9.5	MW-05D-10-11	MW-05D-13-14	MW-05D-15-16	MW-05D-18-19	MW-05D-21.5-22.5	MW-05D-26-27	MW-05D-30-31	MW-6-18-20	MW-6-9
Analyte	Unit	Proposed RI CUL	Basis of CUL														
Polychlorinated Biphenyl Aroclors																	
Aroclor 1016	mg/kg			< 0.1 U	< 0.004 U	< 0.004 U	< 1.44 U	< 0.311 U	< 0.08 U	< 0.04 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1221	mg/kg			< 0.1 U	< 0.004 U	< 0.004 U	< 1.44 U	< 0.311 U	< 0.08 U	< 0.04 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1232	mg/kg			< 0.1 U	< 0.004 U	< 0.004 U	< 1.44 U	< 0.311 U	< 0.08 U	< 0.04 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1242	mg/kg			< 0.1 U	< 0.004 U	< 0.004 U	< 1.44 U	< 0.311 U	**0.46**	**0.18**	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1248	mg/kg			< 0.1 U	**0.0424**	< 0.004 U	< 1.44 U	**2.62 J**	< 0.08 U	< 0.04 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	**0.0088 J**
Aroclor 1254	mg/kg			**0.72**	**0.14**	**0.0076**	**18.9**	**3.87 J**	**0.78**	**0.97**	< 0.004 U	< 0.004 U	< 0.004 U	**0.0058**	< 0.004 U	< 0.004 U	**0.0318**
Aroclor 1260	mg/kg			**0.234**	**0.0504**	**0.0034 J**	**7**	**1.28**	**0.28**	**0.37**	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	**0.0145**
Aroclor 1262	mg/kg			< 0.1 U	< 0.004 U	< 0.004 U	< 1.44 U	< 0.311 U	< 0.08 U	< 0.04 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1268	mg/kg			< 0.1 U	< 0.004 U	< 0.004 U	< 1.44 U	< 0.311 U	< 0.08 U	< 0.04 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
Total PCB Aroclors (ND = 0)	mg/kg	0.036	SL-6, PQL Adj.	**0.954**	**0.233**	**0.011 J**	**25.9**	**7.77 J**	**1.52**	**1.52**	< 0.004 U	< 0.004 U	< 0.004 U	**0.0058**	< 0.004 U	< 0.004 U	**0.0551 J**

Notes:

Proposed RI CUL = Proposed Remedial Investigation Cleanup Level

Bold = detected

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Blue Shaded = Detected result exceeded the Proposed RI CUL

mg/kg = milligrams per kilogram

U = Analyte not detected at or above the RDL shown

J = Result value estimated

UJ = Analyte not detected, and the RDL shown is an estimate

A = One or more of the nine common Aroclor groups (1016, 1221, 1232, 1242, 1248, 1254, 1260, 1262, and 1268) were not reported, and the Total PCB Aroclors (ND = 0) sum assumes the missing components were nondetect.

Total PCB Aroclors (ND = 0) are the sum of Aroclors available, with nondetects = 0, unless all Aroclors were not detected, in which case the Total PCB Aroclors concentration is shown as nondetect at the maximum RDL for any individual Aroclor.

RDL = Reported Detection Limit

Table I.6.C.1. Individual PCB Aroclors in Saturated Soil

South Park Marina Site, Seattle, Washington

Location				MW-06D			MW-07	MW-08		MW-08D	MW-09D		MW-10	MW-11	MW-11D		MW-12
Sample Date				09/21/22	09/21/22	09/21/22	03/09/21	03/09/21	03/09/21	09/15/22	09/15/22	09/15/22	03/08/21	03/08/21	09/15/22	09/15/22	03/03/21
Sample				MW-06D-12.5-13.5	MW-06D-26-27	MW-06D-8.5-9.5	MW-7-17-19	MW-8-18-20	MW-8-8-9	MW-08D-15-16	MW-09D-15-16	MW-09D-6.5-7.5	MW-10-5.5-6.5	MW-11-6-7	MW-11D-10-11	MW-11D-20-21	MW-12-9.5-10.5
Analyte	Unit	Proposed RI CUL	Basis of CUL														
Polychlorinated Biphenyl Aroclors																	
Aroclor 1016	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1221	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1232	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1242	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1248	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1254	mg/kg			**0.021**	< 0.004 U	**0.011**	< 0.004 U	< 0.004 U	**0.006**	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	**0.0039 J**
Aroclor 1260	mg/kg			**0.039**	< 0.004 U	**0.0064**	**0.0009 J**	< 0.004 U	**0.0029 J**	< 0.004 U	< 0.004 U	< 0.004 U	**0.0008 J**	**0.0021 J**	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1262	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	**0.0014 J**
Aroclor 1268	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
Total PCB Aroclors (ND = 0)	mg/kg	0.036	SL-6, PQL Adj.	**0.06**	< 0.004 U	**0.0174**	**0.0009 J**	< 0.004 U	**0.0089 J**	< 0.004 U	< 0.004 U	< 0.004 U	**0.0008 J**	**0.0021 J**	< 0.004 U	< 0.004 U	**0.0053 J**

Notes:

Proposed RI CUL = Proposed Remedial Investigation Cleanup Level

Bold = detected

Gray Shaded = Nondetect result has an RDL that exceeds the Proposed RI CUL

Blue Shaded = Detected result exceeded the Proposed RI CUL

mg/kg = milligrams per kilogram

U = Analyte not detected at or above the RDL shown

J = Result value estimated

UJ = Analyte not detected, and the RDL shown is an estimate

A = One or more of the nine common Aroclor groups (1016, 1221, 1232, 1242, 1248, 1254, 1260, 1262, and 1268) were not reported, and the Total PCB Aroclors (ND = 0) sum assumes the missing components were nondetect.

Total PCB Aroclors (ND = 0) are the sum of Aroclors available, with nondetects = 0, unless all Aroclors were not detected, in which case the Total PCB Aroclors concentration is shown as nondetect at the maximum RDL for any individual Aroclor.

RDL = Reported Detection Limit

Table I.6.C.1. Individual PCB Aroclors in Saturated Soil

South Park Marina Site, Seattle, Washington

Location				MW-13	MW-16	MW-16D					MW-17	MW-18	MW-18D	MW-19D		MW-20	MW-21	MW-22
Sample Date				03/01/21	09/23/22	09/22/22	09/22/22	09/22/22	09/23/22	09/23/22	09/16/22	09/13/22	09/12/22	09/16/22	09/16/22	09/14/22	09/14/22	09/14/22
Sample				MW-13-9.5-10.5	MW-16-5.5-6.5	MW-16D-10.5-11.5	MW-16D-17-18	MW-16D-19-20	MW-16D-24-25	MW-16D-29-30	MW-17-12-13	MW-18-13-14	MW-18D-15-16	MW-19D-15-16	MW-19D-6-7	MW-20-11-12	MW-21-10.5-11.5	MW-22-10.5-11.5
Analyte	Unit	Proposed RI CUL	Basis of CUL															
Polychlorinated Biphenyl Aroclors																		
Aroclor 1016	mg/kg			< 0.004 U	< 0.08 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1221	mg/kg			< 0.004 U	< 0.08 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1232	mg/kg			< 0.004 U	< 0.08 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1242	mg/kg			< 0.004 U	< 0.08 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1248	mg/kg			< 0.004 U	< 0.08 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1254	mg/kg			< 0.004 U	**0.56**	**0.075**	**0.0045**	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1260	mg/kg			< 0.004 U	< 0.08 U	**0.017**	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1262	mg/kg			< 0.004 U	< 0.08 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1268	mg/kg			< 0.004 U	< 0.08 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
Total PCB Aroclors (ND = 0)	mg/kg	0.036	SL-6, PQL Adj.	< 0.004 U	**0.56**	**0.092**	**0.0045**	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U

Notes:

Proposed RI CUL = Proposed Remedial Investigation Cleanup Level

Bold = detected

Gray Shaded = Nondetect result has an RDL that exceeds the Proposed RI CUL

Blue Shaded = Detected result exceeded the Proposed RI CUL

mg/kg = milligrams per kilogram

U = Analyte not detected at or above the RDL shown

J = Result value estimated

UJ = Analyte not detected, and the RDL shown is an estimate

A = One or more of the nine common Aroclor groups (1016, 1221, 1232, 1242, 1248, 1254, 1260, 1262, and 1268) were not reported, and the Total PCB Aroclors (ND = 0) sum assumes the missing components were nondetect.

Total PCB Aroclors (ND = 0) are the sum of Aroclors available, with nondetects = 0, unless all Aroclors were not detected, in which case the Total PCB Aroclors concentration is shown as nondetect at the maximum RDL for any individual Aroclor.

RDL = Reported Detection Limit

Table I.6.C.1. Individual PCB Aroclors in Saturated Soil

South Park Marina Site, Seattle, Washington

Location				SB-01	SB-02	SB-03	SB-03	SB-04	SB-05	SB-06	SB-07	SB-08	SB-09	SB-10	SB-13	SB-14	SB-21	SB-22
Sample Date				09/27/07	09/28/07	09/27/07	09/27/07	09/27/07	09/27/07	09/28/07	09/28/07	09/27/07	09/27/07	09/28/07	10/01/07	10/01/07	07/27/11	07/27/11
Sample				SB-01-9	SB-02-9	SB-03-13.5	SB-03-7	SB-04-8	SB-05-8	SB-06-8	SB-07-9	SB-08-9	SB-09-10	SB-10-14	SB-13-7	SB-14-7.5	SB21-9.0-072711	SB22-10.0-072711
Analyte	Unit	Proposed RI CUL	Basis of CUL															
Polychlorinated Biphenyl Aroclors																		
Aroclor 1016	mg/kg			< 0.0099 U	< 0.01 U	< 0.0099 U	< 0.0099 U	< 0.01 U	< 0.0099 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.0099 U	< 0.0099 U	< 1 U	< 0.099 U	< 1.2 U	< 0.65 U
Aroclor 1221	mg/kg																< 1.2 U	< 0.65 U
Aroclor 1232	mg/kg																< 1.2 U	< 0.65 U
Aroclor 1242	mg/kg																< 1.2 U	< 0.65 U
Aroclor 1248	mg/kg			< 0.0099 U	< 0.01 U	< 0.0099 U	< 0.0099 U	< 0.01 U	< 0.0099 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.0099 U	< 0.0099 U	< 1 U	< 0.099 U	< 1.2 U	< 0.65 U
Aroclor 1254	mg/kg			< 0.0099 U	< 0.01 U	**0.039**	**0.092**	< 0.01 U	< 0.0099 U	**0.023**	**0.0059 J**	< 0.01 U	< 0.0099 U	**0.022**	**13**	**7**	**8.9**	**3.1**
Aroclor 1260	mg/kg			< 0.0099 U	**0.021**	< 0.0099 U	**0.088**	< 0.01 U	< 0.0099 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.0099 U	**0.024**	< 1 U	**4.9**	< 1.2 U	< 0.65 U
Aroclor 1262	mg/kg																	
Aroclor 1268	mg/kg																	
Total PCB Aroclors (ND = 0)	mg/kg	0.036	SL-6, PQL Adj.	< 0.0099 UA	**0.021 A**	**0.039 A**	**0.18 A**	< 0.01 UA	< 0.0099 UA	**0.023 A**	**0.0059 JA**	< 0.01 UA	< 0.0099 UA	**0.046 A**	**13 A**	**11.9 A**	**8.9 A**	**3.1 A**

Notes:

Proposed RI CUL = Proposed Remedial Investigation Cleanup Level

Bold = detected

Gray Shaded = Nondetect result has an RDL that exceeds the Proposed RI CUL

Blue Shaded = Detected result exceeded the Proposed RI CUL

mg/kg = milligrams per kilogram

U = Analyte not detected at or above the RDL shown

J = Result value estimated

UJ = Analyte not detected, and the RDL shown is an estimate

A = One or more of the nine common Aroclor groups (1016, 1221, 1232, 1242, 1248, 1254, 1260, 1262, and 1268) were not reported, and the Total PCB Aroclors (ND = 0) sum assumes the missing components were nondetect.

Total PCB Aroclors (ND = 0) are the sum of Aroclors available, with nondetects = 0, unless all Aroclors were not detected, in which case the Total PCB Aroclors concentration is shown as nondetect at the maximum RDL for any individual Aroclor.

RDL = Reported Detection Limit

Table I.6.C.1. Individual PCB Aroclors in Saturated Soil

South Park Marina Site, Seattle, Washington

Location				SB-26			SB-27		SB-28	SB-30	SB-31		SB-32	SB-33	SB-35		
Sample Date				03/04/21	03/04/21	03/04/21	03/09/21	03/09/21	03/01/21	03/01/21	03/01/21	03/01/21	03/08/21	03/03/21	09/12/22	09/12/22	09/12/22
Sample				SB-26-12.5	SB-26-18-20	SB-26-5.5-6.5	SB-27-18-20	SB-27-8-9	SB-28-14.5-15.5	SB-30-23-25	SB-31-13-14.5	SB-31-19-20	SB-32-7-8	SB-33-5.5-6.5	SB-35-11-12	SB-35-13-13.75	SB-35-18-18.75
Analyte	Unit	Proposed RI CUL	Basis of CUL														
Polychlorinated Biphenyl Aroclors																	
Aroclor 1016	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.0197 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.008 U	< 0.004 U
Aroclor 1221	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.0197 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.008 U	< 0.004 U
Aroclor 1232	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.0197 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.008 U	< 0.004 U
Aroclor 1242	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.0197 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.008 U	< 0.004 U
Aroclor 1248	mg/kg			**0.0237**	< 0.004 U	< 0.004 U	< 0.004 U	< 0.0197 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.008 U	< 0.004 U
Aroclor 1254	mg/kg			**0.0421**	< 0.004 U	**0.065**	< 0.004 U	< 0.0197 U	< 0.004 U	< 0.004 U	< 0.004 U	**0.0018 J**	< 0.004 U	< 0.004 U	**0.022**	< 0.008 U	< 0.004 U
Aroclor 1260	mg/kg			**0.0251**	< 0.004 U	**0.0325**	< 0.004 U	**0.0125 J**	< 0.004 U	< 0.004 U	< 0.004 U	**0.0008 J**	< 0.004 U	< 0.004 U	**0.014**	< 0.008 U	< 0.004 U
Aroclor 1262	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.0197 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.008 U	< 0.004 U
Aroclor 1268	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.0197 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.008 U	< 0.004 U
Total PCB Aroclors (ND = 0)	mg/kg	0.036	SL-6, PQL Adj.	**0.0909**	< 0.004 U	**0.0975**	< 0.004 U	**0.0125 J**	< 0.004 U	< 0.004 U	< 0.004 U	**0.0026 J**	< 0.004 U	< 0.004 U	**0.036**	< 0.008 U	< 0.004 U

Notes:

Proposed RI CUL = Proposed Remedial Investigation Cleanup Level

Bold = detected

Gray Shaded = Nondetect result has an RDL that exceeds the Proposed RI CUL

Blue Shaded = Detected result exceeded the Proposed RI CUL

mg/kg = milligrams per kilogram

U = Analyte not detected at or above the RDL shown

J = Result value estimated

UJ = Analyte not detected, and the RDL shown is an estimate

A = One or more of the nine common Aroclor groups (1016, 1221, 1232, 1242, 1248, 1254, 1260, 1262, and 1268) were not reported, and the Total PCB Aroclors (ND = 0) sum assumes the missing components were nondetect.

Total PCB Aroclors (ND = 0) are the sum of Aroclors available, with nondetects = 0, unless all Aroclors were not detected, in which case the Total PCB Aroclors concentration is shown as nondetect at the maximum RDL for any individual Aroclor.

RDL = Reported Detection Limit

Table I.6.C.1. Individual PCB Aroclors in Saturated Soil

South Park Marina Site, Seattle, Washington

Location				SB-36			SB-37			SB-38	SB-39			SB-40	SB-41		SB-42	SB-43	
Sample Date				09/12/22	09/12/22	09/12/22	09/13/22	09/13/22	09/13/22	09/12/22	09/13/22	09/13/22	09/13/22	09/26/22	09/13/22	09/13/22	09/22/22	09/26/22	09/26/22
Sample				SB-36-10.5-11.5	SB-36-13-14	SB-36-19-20	SB-37-10-11	SB-37-13-13.75	SB-37-19-19.5	SB-38-10.5-11.5	SB-39-10.5-11.5	SB-39-18.5-19.5	SB-39-7-8	SB-40-12-13	SB-41-10-11	SB-41-7-8	SB-42-10-11	SB-43-11-12	SB-43-8-9
Analyte	Unit	Proposed RI CUL	Basis of CUL																
Polychlorinated Biphenyl Aroclors																			
Aroclor 1016	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.8 U	< 0.004 U	< 0.004 U
Aroclor 1221	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.8 U	< 0.004 U	< 0.004 U
Aroclor 1232	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.8 U	< 0.004 U	< 0.004 U
Aroclor 1242	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	**3.6**	< 0.004 U	< 0.004 U
Aroclor 1248	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.8 U	< 0.004 U	< 0.004 U
Aroclor 1254	mg/kg			**0.043**	< 0.004 U	< 0.004 U	**0.021**	< 0.004 U	< 0.004 U	< 0.004 U	**0.023**	< 0.004 U	**0.02**	< 0.004 U	< 0.004 U	< 0.004 U	**12**	< 0.004 U	**0.036**
Aroclor 1260	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.8 U	< 0.004 U	**0.018**
Aroclor 1262	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.8 U	< 0.004 U	< 0.004 U
Aroclor 1268	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.8 U	< 0.004 U	< 0.004 U
Total PCB Aroclors (ND = 0)	mg/kg	0.036	SL-6, PQL Adj.	**0.043**	< 0.004 U	< 0.004 U	**0.021**	< 0.004 U	< 0.004 U	< 0.004 U	**0.023**	< 0.004 U	**0.02**	< 0.004 U	< 0.004 U	< 0.004 U	**15.6**	< 0.004 U	**0.054**

Notes:

Proposed RI CUL = Proposed Remedial Investigation Cleanup Level

Bold = detected

Gray Shaded = Nondetect result has an RDL that exceeds the Proposed RI CUL

Blue Shaded = Detected result exceeded the Proposed RI CUL

mg/kg = milligrams per kilogram

U = Analyte not detected at or above the RDL shown

J = Result value estimated

UJ = Analyte not detected, and the RDL shown is an estimate

A = One or more of the nine common Aroclor groups (1016, 1221, 1232, 1242, 1248, 1254, 1260, 1262, and 1268) were not reported, and the Total PCB Aroclors (ND = 0) sum assumes the missing components were nondetect.

Total PCB Aroclors (ND = 0) are the sum of Aroclors available, with nondetects = 0, unless all Aroclors were not detected, in which case the Total PCB Aroclors concentration is shown as nondetect at the maximum RDL for any individual Aroclor.

RDL = Reported Detection Limit

Table I.6.C.2. Individual PCB Congeners and Co-Located Aroclors in Saturated Soil

South Park Marina Site, Seattle, Washington

				Location	B-02	MW-04	MW-04D	
				Sample Date	11/17/17	03/04/21	09/22/22	09/22/22
				Sample	B-02-6.5-7	MW-4-7-8	MW-04D-10-11	MW-04D-10-11-TIG
Analyte	Unit	Proposed RI CUL	Basis of CUL					
Polychlorinated Biphenyl Aroclors								
Aroclor 1016	mg/kg				< 6.3 U	< 0.231 U	< 2 U	
Aroclor 1221	mg/kg				< 6.3 U	< 0.231 U	< 2 U	
Aroclor 1232	mg/kg				< 6.3 U	< 0.231 U	< 2 U	
Aroclor 1242	mg/kg				**15**	< 0.231 U	< 2 U	
Aroclor 1248	mg/kg				< 6.3 U	**9.52**	< 2 U	
Aroclor 1254	mg/kg				**93 J**	**10.4**	**14**	
Aroclor 1260	mg/kg				**23**	**6.45**	< 2 U	
Aroclor 1262	mg/kg					< 0.231 U	< 2 U	
Aroclor 1268	mg/kg					< 0.231 U	< 2 U	
Total PCB Aroclors (ND = 0)	mg/kg	0.036	SL-6, PQL Adj.		**131 JA**	**26.4**	**14**	
Polychlorinated Biphenyl Congeners								
PCB-001	mg/kg				**1.60E+0 J**	**2.48E-1**		**6.15E-3**
PCB-002	mg/kg				**1.81E-1**	**9.56E-3**		**4.15E-4**
PCB-003	mg/kg				**1.00E+0 J**	**1.43E-1**		**4.56E-3**
PCB-004/010	mg/kg				**4.55E-1**	**1.25E-1**		**1.08E-2**
PCB-005/008	mg/kg				**1.13E+0**	**3.26E-1**		**1.80E-2**
PCB-006	mg/kg				**2.64E-1**	**6.68E-2**		**3.61E-3**
PCB-007/009	mg/kg				**2.00E-1**	**4.90E-2**		**2.58E-3**
PCB-011	mg/kg				**5.96E-3**	**1.57E-3**		**1.17E-4 J**
PCB-012/013	mg/kg				**1.05E-1**	**2.62E-2**		**1.82E-3**
PCB-014	mg/kg				< 2.45E-4 U	< 1.00E-3 U		< 6.22E-5 U
PCB-015	mg/kg				**3.33E-1**	**1.14E-1**		**1.32E-2**
PCB-016/032	mg/kg				**5.89E-1**	**2.36E-1**		**2.05E-2**
PCB-017	mg/kg				**3.54E-1**	**1.62E-1**		**1.27E-2**
PCB-018	mg/kg				**1.02E+0 J**	**4.05E-1**		**3.34E-2**
PCB-019	mg/kg				**9.57E-2**	**3.44E-2**		**3.74E-3**
PCB-020/021/033	mg/kg				**7.44E-1**	**2.55E-1**		**2.04E-2**
PCB-022	mg/kg				**4.07E-1**	**1.34E-1**		**1.15E-2**
PCB-023	mg/kg				**1.25E-3**	**3.45E-4 J**		**2.92E-5 J**
PCB-024/027	mg/kg				**6.36E-2**	**2.53E-2**		**2.33E-3**
PCB-025	mg/kg				**8.70E-2**	**2.47E-2**		**2.20E-3**
PCB-026	mg/kg				**1.88E-1**	**5.61E-2**		**5.43E-3**
PCB-028	mg/kg				**9.03E-1**	**3.42E-1**		**3.32E-2**
PCB-029	mg/kg				**8.60E-3**	**2.80E-3**		**2.01E-4**
PCB-030	mg/kg				**4.41E-4**	**1.65E-4 J**		**1.38E-5 J**
PCB-031	mg/kg				**1.17E+0 J**	**3.60E-1**		**3.29E-2**
PCB-034	mg/kg				**4.25E-3**	**1.83E-3**		**1.48E-4**
PCB-035	mg/kg				**9.25E-3**	**3.44E-3**		**2.93E-4**
PCB-036	mg/kg				**1.01E-4 J**	< 1.00E-3 U		< 6.22E-5 U
PCB-037	mg/kg				**2.40E-1**	**9.84E-2**		**9.27E-3**
PCB-038	mg/kg				**5.54E-3**	**3.16E-3**		**4.06E-4**
PCB-039	mg/kg				**2.93E-4**	**3.11E-4 J**		**2.68E-5 J**
PCB-040	mg/kg				**2.03E-1**	**8.45E-2**		**1.02E-2**
PCB-041/064/071/072	mg/kg				**1.12E+0**	**3.24E-1**		**4.56E-2**
PCB-042/059	mg/kg				**2.95E-1**	**1.26E-1**		**1.76E-2**
PCB-043/049	mg/kg				**1.00E+0**	**3.28E-1**		**6.46E-2**
PCB-044	mg/kg				**1.92E+0 J**	**4.87E-1**		**7.09E-2**
PCB-045	mg/kg				**1.44E-1**	**7.15E-2**		**1.02E-2**
PCB-046	mg/kg				**6.25E-2**	**2.96E-2**		**4.14E-3**
PCB-047	mg/kg				**2.48E-1**	**1.07E-1**		**1.90E-2**
PCB-048/075	mg/kg				**1.95E-1**	**7.53E-2**		**8.02E-3**
PCB-050	mg/kg				**2.00E-3**	**8.31E-4 J**		**1.06E-4**
PCB-051	mg/kg				**3.91E-2**	**1.84E-2**		**2.79E-3**
PCB-052/069	mg/kg				**2.98E+0 J**	**6.48E-1**		**1.67E-1**
PCB-053	mg/kg				**1.54E-1**	**6.48E-2**		**1.24E-2**
PCB-054	mg/kg				**2.19E-3**	**9.09E-4 J**		**1.43E-4**
PCB-055	mg/kg				**3.39E-2**	**1.78E-3**		**5.14E-4**
PCB-056/060	mg/kg				**8.70E-1**	**2.50E-1**		**3.01E-2**
PCB-057	mg/kg				**4.87E-3**	**1.48E-3**		**1.80E-4**
PCB-058	mg/kg				< 2.45E-4 U	< 1.00E-3 U		**1.88E-4**
PCB-061/070	mg/kg				**3.26E+0 J**	**6.33E-1**		**9.88E-2**
PCB-062	mg/kg				**2.98E-4**	< 1.00E-3 U		< 6.22E-5 U
PCB-063	mg/kg				**5.18E-2**	**1.50E-2**		**1.50E-3**
PCB-065	mg/kg				**5.56E-4**	< 1.00E-3 U		< 6.22E-5 U
PCB-066/076	mg/kg				**1.45E+0**	**3.49E-1**		**5.36E-2**
PCB-067	mg/kg				**2.75E-2**	**9.30E-3**		**8.85E-4**
PCB-068	mg/kg				**1.82E-3**	< 1.00E-3 U		**3.88E-4**
PCB-073	mg/kg				< 2.45E-4 U	**7.12E-4 J**		**1.15E-4**
PCB-074	mg/kg				**9.24E-1**	**1.97E-1**		**2.12E-2**
PCB-077	mg/kg				**8.34E-2**	**3.00E-2**		**5.09E-3**
PCB-078	mg/kg				< 2.45E-4 U	**2.59E-4 J**		< 6.22E-5 U
PCB-079	mg/kg				**4.92E-2**	**1.13E-2**		**6.68E-3**
PCB-080	mg/kg				< 2.45E-4 U	< 1.00E-3 U		< 6.22E-5 U

Table I.6.C.2. Individual PCB Congeners and Co-Located Aroclors in Saturated Soil

South Park Marina Site, Seattle, Washington

				Location	B-02	MW-04	MW-04D	
				Sample Date	11/17/17	03/04/21	09/22/22	09/22/22
				Sample	B-02-6.5-7	MW-4-7-8	MW-04D-10-11	MW-04D-10-11-TIG
Analyte	Unit	Proposed RI CUL	Basis of CUL					
PCB-081	mg/kg				**1.62E-2**	**8.73E-3**		**2.01E-3**
PCB-082	mg/kg				**9.06E-1**	**1.29E-1**		**6.20E-2**
PCB-083	mg/kg				< 2.45E-4 U	< 1.00E-3 U		**5.47E-5 J**
PCB-084/092	mg/kg				**2.69E+0 J**	**4.77E-1**		**2.69E-1**
PCB-085/116	mg/kg				**9.90E-1**	**1.64E-1**		**1.11E-1**
PCB-086	mg/kg				< 2.45E-4 U	**2.66E-3**		**6.79E-4**
PCB-087/117/125	mg/kg				**2.82E+0**	**4.21E-1**		**2.32E-1**
PCB-088/091	mg/kg				**7.91E-1**	**1.34E-1**		**9.65E-2**
PCB-089	mg/kg				**4.86E-2**	**1.02E-2**		**3.77E-3**
PCB-090/101	mg/kg				**6.89E+0 J**	**1.24E+0**		**6.02E-1**
PCB-093	mg/kg				< 2.45E-4 U	**1.15E-2**		**1.67E-2**
PCB-094	mg/kg				**1.99E-2**	**3.81E-3**		**1.68E-3**
PCB-095/098/102	mg/kg				**4.63E+0 J**	**7.95E-1**		**4.68E-1**
PCB-096	mg/kg				**3.12E-2**	**6.07E-3**		**2.53E-3**
PCB-097	mg/kg				**2.06E+0 J**	**3.04E-1**		**1.65E-1**
PCB-099	mg/kg				**2.98E+0 J**	**4.40E-1**		**2.52E-1**
PCB-100	mg/kg				**9.80E-3**	**2.04E-3**		**9.80E-4**
PCB-103	mg/kg				**2.29E-2**	**5.26E-3**		**2.32E-3**
PCB-104	mg/kg				**1.22E-4 J**	< 1.00E-3 U		< 6.22E-5 U
PCB-105	mg/kg				**2.78E+0 J**	**3.82E-1**		**1.25E-1**
PCB-106/118	mg/kg				**6.28E+0 J**	**9.36E-1**		**4.28E-1**
PCB-107/109	mg/kg				**3.94E-1**	**5.54E-2**		**2.15E-2**
PCB-108/112	mg/kg				**2.63E-1**	**4.10E-2**		**1.94E-2**
PCB-110	mg/kg				**6.95E+0 J**	**1.12E+0**		**8.86E-1**
PCB-111/115	mg/kg				**1.62E-1**	**1.32E-2**		**5.62E-3**
PCB-113	mg/kg				< 2.45E-4 U	< 1.00E-3 U		**8.49E-4**
PCB-114	mg/kg				**1.79E-1**	**2.04E-2**		**4.65E-3**
PCB-119	mg/kg				**8.32E-2**	**1.50E-2**		**8.01E-3**
PCB-120	mg/kg				**3.78E-3**	**2.11E-3**		< 6.22E-5 U
PCB-121	mg/kg				< 2.45E-4 U	< 1.00E-3 U		**5.13E-4**
PCB-122	mg/kg				**7.44E-2**	**1.23E-2**		**7.56E-3**
PCB-123	mg/kg				**8.73E-2**	**1.56E-2**		**9.53E-3**
PCB-124	mg/kg				**3.24E-1**	**4.12E-2**		**2.53E-2**
PCB-126	mg/kg				**2.37E-2**	**4.47E-3**		**2.67E-3**
PCB-127	mg/kg				< 2.45E-4 U	< 1.00E-3 U		< 6.22E-5 U
PCB-128/162	mg/kg				**1.17E+0**	**1.89E-1**		**1.31E-1**
PCB-129	mg/kg				**3.46E-1**	**5.77E-2**		**3.05E-2**
PCB-130	mg/kg				**3.75E-1**	**7.63E-2**		**5.38E-2**
PCB-131/133	mg/kg				**1.66E-1**	**2.97E-2**		**1.91E-2**
PCB-132/161	mg/kg				**1.83E+0**	**3.42E-1**		**2.07E-1**
PCB-134/143	mg/kg				**3.20E-1**	**6.79E-2**		**4.19E-2**
PCB-135	mg/kg				**6.74E-1**	**1.26E-1**		**5.89E-2 J**
PCB-136	mg/kg				**6.49E-1**	**1.63E-1**		**8.17E-2 J**
PCB-137	mg/kg				**4.22E-1**	**6.39E-2**		**4.46E-2**
PCB-138/163/164	mg/kg				**5.39E+0 J**	**1.18E+0**		**5.70E-1**
PCB-139/149	mg/kg				**3.95E+0 J**	**8.88E-1**		**3.79E-1 J**
PCB-140	mg/kg				**2.40E-2**	**4.57E-3**		**2.19E-3 J**
PCB-141	mg/kg				**9.65E-1**	**2.61E-1**		**1.39E-1**
PCB-142	mg/kg				**1.11E-3**	< 1.00E-3 U		**1.54E-4**
PCB-144	mg/kg				**2.20E-1**	**6.39E-2**		**2.90E-2 J**
PCB-145	mg/kg				**2.70E-3**	**3.40E-4 J**		**1.71E-4 J**
PCB-146/165	mg/kg				**6.04E-1**	**1.35E-1**		**8.27E-2**
PCB-147	mg/kg				**1.37E-1**	**1.86E-2**		**1.14E-2 J**
PCB-148	mg/kg				**2.40E-3**	**4.58E-4 J**		**1.86E-4 J**
PCB-150	mg/kg				**4.88E-3**	**8.00E-4 J**		**4.00E-4 J**
PCB-151	mg/kg				**8.37E-1**	**2.64E-1**		**1.05E-1 J**
PCB-152	mg/kg				**5.75E-3**	**7.34E-4 J**		**4.53E-4 J**
PCB-153	mg/kg				**3.82E+0 J**	**1.02E+0**		**5.48E-1**
PCB-154	mg/kg				**4.16E-2**	**6.96E-3**		**3.99E-3 J**
PCB-155	mg/kg				< 2.45E-4 U	< 1.00E-3 U		< 6.22E-5 U
PCB-156	mg/kg				**7.24E-1**	**1.10E-1**		**5.35E-2**
PCB-157	mg/kg				**1.61E-1**	**2.63E-2**		**1.99E-2**
PCB-158/160	mg/kg				**6.60E-1**	**1.45E-1**		**7.53E-2**
PCB-159	mg/kg				< 2.45E-4 U	< 1.00E-3 U		< 6.22E-5 U
PCB-166	mg/kg				**2.97E-2**	**3.69E-3**		**2.53E-3**
PCB-167	mg/kg				**2.52E-1**	**4.65E-2**		**3.27E-2**
PCB-168	mg/kg				**4.23E-3**	**1.47E-3**		**7.78E-4**
PCB-169	mg/kg				< 2.45E-4 U	< 1.00E-3 U		**4.49E-5 J**
PCB-170	mg/kg				**7.11E-1**	**2.64E-1**		**1.27E-1**
PCB-171	mg/kg				**1.96E-1**	**7.56E-2**		**3.44E-2**
PCB-172	mg/kg				**1.06E-1**	**4.21E-2**		**1.79E-2**
PCB-173	mg/kg				**2.08E-2**	**6.79E-3**		**2.71E-3**
PCB-174	mg/kg				**6.50E-1**	**2.95E-1**		**1.22E-1**

Table I.6.C.2. Individual PCB Congeners and Co-Located Aroclors in Saturated Soil

South Park Marina Site, Seattle, Washington

			Location	**B-02**	**MW-04**	**MW-04D**	
			Sample Date	11/17/17	03/04/21	09/22/22	09/22/22
			Sample	B-02-6.5-7	MW-4-7-8	MW-04D-10-11	MW-04D-10-11-TIG
Analyte	Unit	Proposed RI CUL	Basis of CUL				
PCB-175	mg/kg			**2.32E-2**	**1.16E-2**		**4.26E-3**
PCB-176	mg/kg			**8.22E-2**	**3.57E-2**		**1.59E-2**
PCB-177	mg/kg			**3.78E-1**	**1.63E-1**		**6.58E-2**
PCB-178	mg/kg			**9.81E-2**	**5.04E-2**		**1.98E-2**
PCB-179	mg/kg			**2.44E-1**	**1.21E-1**		**4.93E-2**
PCB-180	mg/kg			**1.39E+0 J**	**6.21E-1**		**2.53E-1**
PCB-181	mg/kg			< 2.45E-4 U	**1.22E-3**		**6.70E-4**
PCB-182/187	mg/kg			**6.30E-1**	**3.02E-1**		**1.26E-1**
PCB-183	mg/kg			**3.33E-1**	**1.58E-1**		**6.75E-2**
PCB-184	mg/kg			**6.69E-4**	< 1.00E-3 U		**5.79E-5 J**
PCB-185	mg/kg			**6.53E-2**	**3.24E-2**		**1.41E-2**
PCB-186	mg/kg			**2.43E-4 J**	< 1.00E-3 U		< 6.22E-5 U
PCB-188	mg/kg			**4.96E-4**	< 1.00E-3 U		**7.08E-5**
PCB-189	mg/kg			**2.73E-2**	**9.31E-3**		**4.05E-3**
PCB-190	mg/kg			**1.17E-1**	**5.10E-2**		**2.59E-2**
PCB-191	mg/kg			**2.61E-2**	**1.07E-2**		**4.92E-3**
PCB-192	mg/kg			< 2.45E-4 U	< 1.00E-3 U		< 6.22E-5 U
PCB-193	mg/kg			**5.31E-2**	**2.93E-2**		**1.30E-2**
PCB-194	mg/kg			**2.50E-1**	**1.24E-1**		**5.48E-2**
PCB-195	mg/kg			**1.13E-1**	**5.45E-2**		**2.35E-2**
PCB-196/203	mg/kg			**3.44E-1**	**1.53E-1**		**6.73E-2**
PCB-197	mg/kg			**1.08E-2**	**5.45E-3**		**2.34E-3**
PCB-198	mg/kg			**1.60E-2**	**6.36E-3**		**2.41E-3**
PCB-199	mg/kg			**2.97E-1**	**1.36E-1**		**5.96E-2**
PCB-200	mg/kg			**3.97E-2**	**1.78E-2**		**8.67E-3**
PCB-201	mg/kg			**3.95E-2**	**1.91E-2**		**9.22E-3**
PCB-202	mg/kg			**5.71E-2**	**2.22E-2**		**1.15E-2**
PCB-204	mg/kg			**6.02E-5 J**	< 1.00E-3 U		< 6.22E-5 U
PCB-205	mg/kg			**1.19E-2**	**5.94E-3**		**2.60E-3**
PCB-206	mg/kg			**1.28E-1**	**3.93E-2**		**3.08E-2**
PCB-207	mg/kg			**1.54E-2**	**5.83E-3**		**4.73E-3**
PCB-208	mg/kg			**2.42E-2**	**8.13E-3**		**7.22E-3**
PCB-209	mg/kg			**1.00E-2**	**5.29E-3**		**3.22E-3**
Total Decachlorobiphenyls	mg/kg			**1.00E-2**	**5.29E-3**		**3.22E-3**
Total Dichlorobiphenyls	mg/kg			**2.49E+0**	**7.08E-1**		**5.01E-2**
Total Heptachlorobiphenyls	mg/kg			**5.15E+0**	**2.28E+0**		**9.68E-1**
Total Hexachlorobiphenyls	mg/kg			**2.38E+1**	**5.29E+0**		**2.73E+0**
Total Monochlorobiphenyls	mg/kg			**2.79E+0**	**4.01E-1**		**1.11E-2**
Total Nonachlorobiphenyls	mg/kg			**1.68E-1**	**5.33E-2**		**4.27E-2**
Total Octachlorobiphenyls	mg/kg			**1.18E+0**	**5.44E-1**		**2.42E-1**
Total Pentachlorobiphenyls	mg/kg			**4.25E+1**	**6.81E+0**		**3.83E+0**
Total Tetrachlorobiphenyls	mg/kg			**1.51E+1**	**3.87E+0 J**		**6.54E-1**
Total Trichlorobiphenyls	mg/kg			**5.89E+0**	**2.14E+0**		**1.89E-1**
Total PCB Congeners (ND = 0)	mg/kg	1.8E-4	SL-6, PQL Adj.	**9.91E+1 J**	**2.21E+1 J**		**8.72E+0 J**
Total PCB TEQ (ND = 0)	mg/kg	7.0E-7	SL-6, PQL Adj.	**2.51E-3 J**	**4.71E-4**		**2.77E-4 J**
Total Trichlorobiphenyls	mg/kg			**7.82E-3**	**1.05E-1**	**5.06E+0**	**5.01E-3**
Total PCB Congeners (ND = 0)	mg/kg	1.8E-4	SL-3, PQL Adj.	**5.91E+0 J**	**1.44E+1 J**	**1.07E+2 J**	**5.65E+0 J**
Total PCB TEQ (ND = 0)	mg/kg	7.0E-7	SL-3, PQL Adj.	**1.51E-4**	**4.07E-4**	**1.92E-3 J**	**2.35E-4**

Notes:

Bold = detected

Gray Shaded = Nondetect result has an RDL that exceeds the Proposed RI CUL

Blue Shaded = Detected result exceeded the Proposed RI CUL

Proposed RI CUL = Proposed Remedial Investigation Cleanup Level

mg/kg = milligrams per kilogram

U = Analyte not detected at or above the RDL shown

J = Result value estimated

UJ = Analyte not detected, and the RDL shown is an estimate

(ND = 0) = calculated using zero for nondetected components

TEQ = Toxic Equivalency

A = One or more of the nine common Aroclor groups (1016, 1221, 1232, 1242, 1248, 1254, 1260, 1262, and 1268) were not reported, and the Total PCB Aroclors (ND = 0) sum assumes the missing components were nondetect.

Total PCB Aroclors (ND = 0) are the sum of Aroclors available, with nondetects = 0, unless all Aroclors were not detected, in which case the Total PCB Aroclors concentration is shown as nondetect at the maximum RDL for any individual Aroclor.

RDL = Reported Detection Limit

Table I.6.C.2. Individual PCB Congeners and Co-Located Aroclors in Saturated Soil

South Park Marina Site, Seattle, Washington

				Location	MW-05	MW-05D		MW-06D	MW-11D
				Sample Date	03/05/21	09/21/22	09/21/22	09/21/22	09/15/22
				Sample	MW-5-6-7	MW-05D-13-14	MW-05D-13-14-TIG	MW-06D-19-20-TIG	MW-11D-11-12-TIG
Analyte	Unit	Proposed RI CUL	Basis of CUL						
Polychlorinated Biphenyl Aroclors									
Aroclor 1016	mg/kg				< 1.44 U	< 0.04 U			
Aroclor 1221	mg/kg				< 1.44 U	< 0.04 U			
Aroclor 1232	mg/kg				< 1.44 U	< 0.04 U			
Aroclor 1242	mg/kg				< 1.44 U	**0.18**			
Aroclor 1248	mg/kg				< 1.44 U	< 0.04 U			
Aroclor 1254	mg/kg				**18.9**	**0.97**			
Aroclor 1260	mg/kg				**7**	**0.37**			
Aroclor 1262	mg/kg				< 1.44 U	< 0.04 U			
Aroclor 1268	mg/kg				< 1.44 U	< 0.04 U			
Total PCB Aroclors (ND = 0)	mg/kg	0.036	SL-6, PQL Adj.		**25.9**	**1.52**			
Polychlorinated Biphenyl Congeners									
PCB-001	mg/kg				**1.92E-3**		**6.62E-3**	< 2.48E-6 U	< 2.49E-6 U
PCB-002	mg/kg				**2.52E-4 J**		**5.52E-4**	< 2.48E-6 U	< 2.49E-6 U
PCB-003	mg/kg				**2.21E-3**		**4.23E-3**	< 2.48E-6 U	< 2.49E-6 U
PCB-004/010	mg/kg				**4.12E-2**		**3.51E-3**	< 4.97E-6 U	< 4.99E-6 U
PCB-005/008	mg/kg				**2.64E-2**		**8.25E-3**	< 4.97E-6 U	< 4.99E-6 U
PCB-006	mg/kg				**5.60E-3**		**1.62E-3**	< 2.48E-6 U	< 2.49E-6 U
PCB-007/009	mg/kg				**5.19E-3**		**1.37E-3**	< 4.97E-6 U	< 4.99E-6 U
PCB-011	mg/kg				< 9.98E-4 U		< 2.50E-5 U	< 2.48E-6 U	< 2.49E-6 U
PCB-012/013	mg/kg				**5.01E-3**		**7.76E-4**	< 4.97E-6 U	< 4.99E-6 U
PCB-014	mg/kg				< 9.98E-4 U		< 2.50E-5 U	< 2.48E-6 U	< 2.49E-6 U
PCB-015	mg/kg				**4.80E-2**		**3.36E-3**	< 2.48E-6 U	< 2.49E-6 U
PCB-016/032	mg/kg				**8.77E-2**		**4.62E-3**	< 4.97E-6 U	**2.63E-7 J**
PCB-017	mg/kg				**5.96E-2**		**3.02E-3**	< 2.48E-6 U	< 2.49E-6 U
PCB-018	mg/kg				**1.55E-1**		**7.68E-3**	< 2.48E-6 U	< 2.49E-6 U
PCB-019	mg/kg				**1.59E-2**		**6.61E-4**	< 2.48E-6 U	< 2.49E-6 U
PCB-020/021/033	mg/kg				**5.35E-2**		**5.99E-3**	< 7.45E-6 U	< 7.48E-6 U
PCB-022	mg/kg				**3.89E-2**		**3.11E-3**	< 2.48E-6 U	< 2.49E-6 U
PCB-023	mg/kg				< 9.98E-4 U		**8.97E-6 J**	< 2.48E-6 U	< 2.49E-6 U
PCB-024/027	mg/kg				**1.00E-2**		**4.83E-4**	< 4.97E-6 U	< 4.99E-6 U
PCB-025	mg/kg				**7.01E-3**		**5.56E-4**	< 2.48E-6 U	< 2.49E-6 U
PCB-026	mg/kg				**1.86E-2**		**1.35E-3**	< 2.48E-6 U	< 2.49E-6 U
PCB-028	mg/kg				**1.33E-1**		**8.49E-3**	< 2.48E-6 U	< 2.49E-6 U
PCB-029	mg/kg				**8.36E-4 J**		< 2.50E-5 U	< 2.48E-6 U	< 2.49E-6 U
PCB-030	mg/kg				< 9.98E-4 U		< 2.50E-5 U	< 2.48E-6 U	< 2.49E-6 U
PCB-031	mg/kg				**1.27E-1**		**8.41E-3**	< 2.48E-6 U	< 2.49E-6 U
PCB-034	mg/kg				**7.57E-4 J**		**3.20E-5**	< 2.48E-6 U	< 2.49E-6 U
PCB-035	mg/kg				**1.31E-3**		**7.68E-5**	< 2.48E-6 U	< 2.49E-6 U
PCB-036	mg/kg				< 9.98E-4 U		< 2.50E-5 U	< 2.48E-6 U	< 2.49E-6 U
PCB-037	mg/kg				**3.84E-2**		**2.32E-3**	< 2.48E-6 U	< 2.49E-6 U
PCB-038	mg/kg				**3.01E-3**		**6.78E-5**	< 2.48E-6 U	< 2.49E-6 U
PCB-039	mg/kg				< 9.98E-4 U		< 2.50E-5 U	< 2.48E-6 U	< 2.49E-6 U
PCB-040	mg/kg				**7.14E-2**		**1.99E-3**	< 2.48E-6 U	< 2.49E-6 U
PCB-041/064/071/072	mg/kg				**2.76E-1**		**1.00E-2**	**3.03E-7 J**	< 9.97E-6 U
PCB-042/059	mg/kg				**1.04E-1**		**3.03E-3**	< 4.97E-6 U	< 4.99E-6 U
PCB-043/049	mg/kg				**4.07E-1**		**1.18E-2**	**3.61E-7 J**	< 4.99E-6 U
PCB-044	mg/kg				**6.12E-1**		**1.65E-2**	< 2.48E-6 U	< 2.49E-6 U
PCB-045	mg/kg				**4.72E-2**		**1.55E-3**	< 2.48E-6 U	< 2.49E-6 U
PCB-046	mg/kg				**1.67E-2**		**5.94E-4**	< 2.48E-6 U	< 2.49E-6 U
PCB-047	mg/kg				**1.06E-1**		**2.90E-3**	< 2.48E-6 U	< 2.49E-6 U
PCB-048/075	mg/kg				**4.98E-2**		**1.96E-3**	< 4.97E-6 U	< 4.99E-6 U
PCB-050	mg/kg				**6.48E-4 J**		**1.69E-5 J**	< 2.48E-6 U	< 2.49E-6 U
PCB-051	mg/kg				**1.20E-2**		**3.81E-4**	< 2.48E-6 U	< 2.49E-6 U
PCB-052/069	mg/kg				**9.96E-1**		**3.04E-2**	< 4.97E-6 U	< 4.99E-6 U
PCB-053	mg/kg				**5.39E-2**		**1.69E-3**	< 2.48E-6 U	< 2.49E-6 U
PCB-054	mg/kg				**5.76E-4 J**		**1.83E-5 J**	< 2.48E-6 U	< 2.49E-6 U
PCB-055	mg/kg				< 9.98E-4 U		< 2.50E-5 U	< 2.48E-6 U	< 2.49E-6 U
PCB-056/060	mg/kg				**1.74E-1**		**7.86E-3**	**2.31E-7 J**	< 4.99E-6 U
PCB-057	mg/kg				**1.20E-3**		**3.75E-5**	< 2.48E-6 U	< 2.49E-6 U
PCB-058	mg/kg				**1.57E-3**		< 2.50E-5 U	< 2.48E-6 U	< 2.49E-6 U
PCB-061/070	mg/kg				**8.15E-1**		**2.60E-2**	< 4.97E-6 U	**3.03E-7 J**
PCB-062	mg/kg				< 9.98E-4 U		< 2.50E-5 U	< 2.48E-6 U	< 2.49E-6 U
PCB-063	mg/kg				**1.34E-2**		**4.17E-4**	< 2.48E-6 U	< 2.49E-6 U
PCB-065	mg/kg				< 9.98E-4 U		< 2.50E-5 U	< 2.48E-6 U	< 2.49E-6 U
PCB-066/076	mg/kg				**3.77E-1**		**1.14E-2**	< 4.97E-6 U	< 4.99E-6 U
PCB-067	mg/kg				**4.81E-3**		**2.07E-4**	< 2.48E-6 U	< 2.49E-6 U
PCB-068	mg/kg				**3.00E-3**		**5.19E-5**	< 2.48E-6 U	< 2.49E-6 U
PCB-073	mg/kg				< 9.98E-4 U		**1.40E-5 J**	< 2.48E-6 U	< 2.49E-6 U
PCB-074	mg/kg				**1.88E-1**		**6.69E-3**	< 2.48E-6 U	< 2.49E-6 U
PCB-077	mg/kg				**2.06E-2**		**7.27E-4**	< 2.48E-6 U	< 2.49E-6 U
PCB-078	mg/kg				**4.13E-4 J**		**1.34E-4**	< 2.48E-6 U	< 2.49E-6 U
PCB-079	mg/kg				**2.62E-2**		**6.54E-4**	< 2.48E-6 U	< 2.49E-6 U
PCB-080	mg/kg				< 9.98E-4 U		< 2.50E-5 U	< 2.48E-6 U	< 2.49E-6 U

Table I.6.C.2. Individual PCB Congeners and Co-Located Aroclors in Saturated Soil

South Park Marina Site, Seattle, Washington

				Location	MW-05	MW-05D		MW-06D	MW-11D
				Sample Date	03/05/21	09/21/22	09/21/22	09/21/22	09/15/22
				Sample	MW-5-6-7	MW-05D-13-14	MW-05D-13-14-TIG	MW-06D-19-20-TIG	MW-11D-11-12-TIG
Analyte	Unit	Proposed RI CUL	Basis of CUL						
PCB-081	mg/kg				**1.26E-2**		**9.44E-5**	< 2.48E-6 U	< 2.49E-6 U
PCB-082	mg/kg				**3.21E-1**		**6.90E-3**	< 2.48E-6 U	< 2.49E-6 U
PCB-083	mg/kg				< 9.98E-4 U		**1.38E-5 J**	< 2.48E-6 U	< 2.49E-6 U
PCB-084/092	mg/kg				**1.18E+0**		**3.05E-2**	< 4.97E-6 U	< 4.99E-6 U
PCB-085/116	mg/kg				**4.07E-1**		**1.15E-2**	< 4.97E-6 U	< 4.99E-6 U
PCB-086	mg/kg				**6.02E-3**		**1.23E-4**	< 2.48E-6 U	< 2.49E-6 U
PCB-087/117/125	mg/kg				**9.71E-1**		**2.71E-2**	< 7.45E-6 U	< 7.48E-6 U
PCB-088/091	mg/kg				**2.94E-1**		**9.04E-3**	< 4.97E-6 U	< 4.99E-6 U
PCB-089	mg/kg				**1.90E-2**		**4.73E-4**	< 2.48E-6 U	< 2.49E-6 U
PCB-090/101	mg/kg				**2.98E+0**		**8.11E-2**	< 4.97E-6 U	**1.05E-6 J**
PCB-093	mg/kg				**3.09E-2**		< 2.50E-5 U	< 2.48E-6 U	< 2.49E-6 U
PCB-094	mg/kg				**8.19E-3**		**1.87E-4**	< 2.48E-6 U	< 2.49E-6 U
PCB-095/098/102	mg/kg				**1.67E+0**		**5.03E-2**	< 7.45E-6 U	**7.56E-7 J**
PCB-096	mg/kg				**1.02E-2**		**2.76E-4**	< 2.48E-6 U	< 2.49E-6 U
PCB-097	mg/kg				**7.80E-1**		**1.97E-2**	< 2.48E-6 U	< 2.49E-6 U
PCB-099	mg/kg				**1.22E+0**		**3.19E-2**	**9.66E-7 J**	**4.85E-7 J**
PCB-100	mg/kg				**4.35E-3**		**9.74E-5**	< 2.48E-6 U	< 2.49E-6 U
PCB-103	mg/kg				**1.07E-2**		**2.42E-4**	< 2.48E-6 U	< 2.49E-6 U
PCB-104	mg/kg				< 9.98E-4 U		< 2.50E-5 U	< 2.48E-6 U	< 2.49E-6 U
PCB-105	mg/kg				**7.50E-1**		**2.28E-2**	< 2.48E-6 U	< 2.49E-6 U
PCB-106/118	mg/kg				**2.08E+0**		**5.76E-2**	< 4.97E-6 U	**7.44E-7 J**
PCB-107/109	mg/kg				**1.02E-1**		**3.19E-3**	< 4.97E-6 U	< 4.99E-6 U
PCB-108/112	mg/kg				**1.05E-1**		**2.17E-3**	< 4.97E-6 U	< 4.99E-6 U
PCB-110	mg/kg				**2.73E+0**		**7.84E-2**	< 2.48E-6 U	**9.14E-7 J**
PCB-111/115	mg/kg				**2.35E-2**		**8.44E-4**	< 4.97E-6 U	< 4.99E-6 U
PCB-113	mg/kg				**6.17E-3**		< 2.50E-5 U	< 2.48E-6 U	< 2.49E-6 U
PCB-114	mg/kg				**3.33E-2**		**1.18E-3**	< 2.48E-6 U	< 2.49E-6 U
PCB-119	mg/kg				**3.94E-2**		**9.15E-4**	< 2.48E-6 U	< 2.49E-6 U
PCB-120	mg/kg				**4.11E-3**		**1.29E-4**	< 2.48E-6 U	< 2.49E-6 U
PCB-121	mg/kg				< 9.98E-4 U		< 2.50E-5 U	< 2.48E-6 U	< 2.49E-6 U
PCB-122	mg/kg				**2.86E-2**		**7.02E-4**	< 2.48E-6 U	< 2.49E-6 U
PCB-123	mg/kg				**3.59E-2**		**1.01E-3**	< 2.48E-6 U	< 2.49E-6 U
PCB-124	mg/kg				**1.03E-1**		**2.74E-3**	< 2.48E-6 U	< 2.49E-6 U
PCB-126	mg/kg				**9.20E-3**		**2.35E-4**	< 2.48E-6 U	< 2.49E-6 U
PCB-127	mg/kg				< 9.98E-4 U		< 2.50E-5 U	< 2.48E-6 U	< 2.49E-6 U
PCB-128/162	mg/kg				**4.80E-1**		**1.23E-2**	< 4.97E-6 U	< 4.99E-6 U
PCB-129	mg/kg				**1.47E-1**		**3.72E-3**	< 2.48E-6 U	< 2.49E-6 U
PCB-130	mg/kg				**1.78E-1**		**4.64E-3**	< 2.48E-6 U	< 2.49E-6 U
PCB-131/133	mg/kg				**7.33E-2**		**1.64E-3**	< 4.97E-6 U	< 4.99E-6 U
PCB-132/161	mg/kg				**7.65E-1**		**2.00E-2**	**7.37E-7 J**	< 4.99E-6 U
PCB-134/143	mg/kg				**1.63E-1**		**3.74E-3**	< 4.97E-6 U	< 4.99E-6 U
PCB-135	mg/kg				**2.24E-1**		**5.95E-3**	< 2.48E-6 U	< 2.49E-6 U
PCB-136	mg/kg				**2.99E-1**		**8.03E-3**	< 2.48E-6 U	< 2.49E-6 U
PCB-137	mg/kg				**1.87E-1**		**4.47E-3**	< 2.48E-6 U	< 2.49E-6 U
PCB-138/163/164	mg/kg				**2.58E+0**		**7.27E-2**	< 7.45E-6 U	**1.18E-6 J**
PCB-139/149	mg/kg				**1.47E+0**		**4.04E-2**	< 4.97E-6 U	**7.89E-7 J**
PCB-140	mg/kg				**1.14E-2**		**2.41E-4**	< 2.48E-6 U	< 2.49E-6 U
PCB-141	mg/kg				**5.18E-1**		**1.34E-2**	< 2.48E-6 U	< 2.49E-6 U
PCB-142	mg/kg				< 9.98E-4 U		**1.78E-5 J**	< 2.48E-6 U	< 2.49E-6 U
PCB-144	mg/kg				**1.00E-1**		**2.86E-3**	< 2.48E-6 U	< 2.49E-6 U
PCB-145	mg/kg				**8.39E-4 J**		**1.83E-5 J**	< 2.48E-6 U	< 2.49E-6 U
PCB-146/165	mg/kg				**2.85E-1**		**7.42E-3**	< 4.97E-6 U	< 4.99E-6 U
PCB-147	mg/kg				**4.11E-2**		**1.10E-3**	< 2.48E-6 U	< 2.49E-6 U
PCB-148	mg/kg				< 9.98E-4 U		**1.91E-5 J**	< 2.48E-6 U	< 2.49E-6 U
PCB-150	mg/kg				**1.96E-3**		**4.10E-5**	< 2.48E-6 U	< 2.49E-6 U
PCB-151	mg/kg				**3.89E-1**		**1.04E-2**	< 2.48E-6 U	< 2.49E-6 U
PCB-152	mg/kg				**1.93E-3**		**4.46E-5**	< 2.48E-6 U	< 2.49E-6 U
PCB-153	mg/kg				**2.17E+0**		**5.66E-2**	< 2.48E-6 U	**1.08E-6 J**
PCB-154	mg/kg				**1.66E-2**		**3.73E-4**	< 2.48E-6 U	< 2.49E-6 U
PCB-155	mg/kg				< 9.98E-4 U		< 2.50E-5 U	< 2.48E-6 U	< 2.49E-6 U
PCB-156	mg/kg				**2.45E-1**		**7.09E-3**	< 2.48E-6 U	< 2.49E-6 U
PCB-157	mg/kg				**6.79E-2**		**1.77E-3**	< 2.48E-6 U	< 2.49E-6 U
PCB-158/160	mg/kg				**3.19E-1**		**9.60E-3**	**3.46E-7 J**	< 4.99E-6 U
PCB-159	mg/kg				< 9.98E-4 U		< 2.50E-5 U	< 2.48E-6 U	< 2.49E-6 U
PCB-166	mg/kg				**7.64E-3**		**2.38E-4**	< 2.48E-6 U	< 2.49E-6 U
PCB-167	mg/kg				**1.11E-1**		**3.02E-3**	< 2.48E-6 U	< 2.49E-6 U
PCB-168	mg/kg				**3.37E-3**		**7.77E-5**	< 2.48E-6 U	< 2.49E-6 U
PCB-169	mg/kg				< 9.98E-4 U		< 2.50E-5 U	< 2.48E-6 U	< 2.49E-6 U
PCB-170	mg/kg				**4.78E-1**		**1.17E-2**	< 2.48E-6 U	< 2.49E-6 U
PCB-171	mg/kg				**1.41E-1**		**3.09E-3**	**2.18E-7 J**	< 2.49E-6 U
PCB-172	mg/kg				**7.06E-2**		**1.57E-3**	< 2.48E-6 U	< 2.49E-6 U
PCB-173	mg/kg				**1.21E-2**		**2.36E-4**	< 2.48E-6 U	< 2.49E-6 U
PCB-174	mg/kg				**5.10E-1**		**1.15E-2**	**8.02E-7 J**	**3.16E-7 J**

Table I.6.C.2. Individual PCB Congeners and Co-Located Aroclors in Saturated Soil

South Park Marina Site, Seattle, Washington

			Location	MW-05	MW-05D		MW-06D	MW-11D
			Sample Date	03/05/21	09/21/22	09/21/22	09/21/22	09/15/22
			Sample	MW-5-6-7	MW-05D-13-14	MW-05D-13-14-TIG	MW-06D-19-20-TIG	MW-11D-11-12-TIG
Analyte	Unit	Proposed RI CUL	Basis of CUL					
PCB-175	mg/kg			**1.80E-2**		**4.07E-4**	< 2.48E-6 U	< 2.49E-6 U
PCB-176	mg/kg			**6.01E-2**		**1.45E-3**	**1.41E-7 J**	< 2.49E-6 U
PCB-177	mg/kg			**2.80E-1**		**6.28E-3**	< 2.48E-6 U	< 2.49E-6 U
PCB-178	mg/kg			**8.14E-2**		**1.80E-3**	< 2.48E-6 U	< 2.49E-6 U
PCB-179	mg/kg			**1.98E-1**		**4.78E-3**	< 2.48E-6 U	< 2.49E-6 U
PCB-180	mg/kg			**1.01E+0**		**2.56E-2**	< 2.48E-6 U	**6.04E-7 J**
PCB-181	mg/kg			**3.21E-3**		**1.01E-4**	< 2.48E-6 U	< 2.49E-6 U
PCB-182/187	mg/kg			**4.83E-1**		**1.21E-2**	< 4.97E-6 U	< 4.99E-6 U
PCB-183	mg/kg			**2.49E-1**		**6.56E-3**	< 2.48E-6 U	**2.27E-7 J**
PCB-184	mg/kg			< 9.98E-4 U		**6.39E-6 J**	< 2.48E-6 U	< 2.49E-6 U
PCB-185	mg/kg			**5.33E-2**		**1.22E-3**	< 2.48E-6 U	< 2.49E-6 U
PCB-186	mg/kg			< 9.98E-4 U		**3.08E-6 J**	< 2.48E-6 U	< 2.49E-6 U
PCB-188	mg/kg			< 9.98E-4 U		**6.46E-6 J**	< 2.48E-6 U	< 2.49E-6 U
PCB-189	mg/kg			**1.65E-2**		**3.90E-4**	< 2.48E-6 U	< 2.49E-6 U
PCB-190	mg/kg			**8.38E-2**		**2.29E-3**	**1.31E-7 J**	< 2.49E-6 U
PCB-191	mg/kg			**1.69E-2**		**4.23E-4**	< 2.48E-6 U	< 2.49E-6 U
PCB-192	mg/kg			< 9.98E-4 U		< 2.50E-5 U	< 2.48E-6 U	< 2.49E-6 U
PCB-193	mg/kg			**4.46E-2**		**1.12E-3**	< 2.48E-6 U	< 2.49E-6 U
PCB-194	mg/kg			**1.46E-1**		**5.70E-3**	**7.68E-7 J**	**3.38E-7 J**
PCB-195	mg/kg			**8.13E-2**		**2.14E-3**	< 2.48E-6 U	< 2.49E-6 U
PCB-196/203	mg/kg			**2.77E-1**		**6.62E-3**	< 4.97E-6 U	< 4.99E-6 U
PCB-197	mg/kg			**8.48E-3**		**2.10E-4**	< 2.48E-6 U	< 2.49E-6 U
PCB-198	mg/kg			**1.03E-2**		**2.45E-4**	< 2.48E-6 U	< 2.49E-6 U
PCB-199	mg/kg			**2.36E-1**		**5.53E-3**	< 2.48E-6 U	< 2.49E-6 U
PCB-200	mg/kg			**2.99E-2**		**7.81E-4**	**1.15E-7 J**	< 2.49E-6 U
PCB-201	mg/kg			**3.38E-2**		**8.32E-4**	< 2.48E-6 U	< 2.49E-6 U
PCB-202	mg/kg			**4.18E-2**		**1.04E-3**	**3.01E-7 J**	< 2.49E-6 U
PCB-204	mg/kg			< 9.98E-4 U		< 2.50E-5 U	< 2.48E-6 U	< 2.49E-6 U
PCB-205	mg/kg			< 9.98E-4 U		**2.53E-4**	< 2.48E-6 U	< 2.49E-6 U
PCB-206	mg/kg			**9.83E-2**		**2.91E-3**	< 2.48E-6 U	< 2.49E-6 U
PCB-207	mg/kg			**1.53E-2**		**3.98E-4**	< 2.48E-6 U	< 2.49E-6 U
PCB-208	mg/kg			**2.31E-2**		**6.22E-4**	**2.68E-7 J**	< 2.49E-6 U
PCB-209	mg/kg			**1.15E-2 J**		**2.72E-4**	< 2.48E-6 U	< 2.49E-6 U
Total Decachlorobiphenyls	mg/kg			**1.15E-2 J**		**2.72E-4**	< 8.18E-8 U	< 2.17E-8 U
Total Dichlorobiphenyls	mg/kg			**1.31E-1 J**		**1.89E-2**	< 1.05E-6 U	< 1.08E-6 U
Total Heptachlorobiphenyls	mg/kg			**3.81E+0**		**9.27E-2**	**4.19E-6**	**1.15E-6**
Total Hexachlorobiphenyls	mg/kg			**1.08E+1**		**2.92E-1**	**8.15E-6**	**3.04E-6**
Total Monochlorobiphenyls	mg/kg			**4.38E-3**		**1.14E-2**	< 7.25E-7 U	**7.28E-7**
Total Nonachlorobiphenyls	mg/kg			**1.37E-1**		**3.93E-3**	**2.68E-7**	< 4.34E-8 U
Total Octachlorobiphenyls	mg/kg			**8.64E-1**		**2.34E-2**	**1.18E-6**	**3.38E-7**
Total Pentachlorobiphenyls	mg/kg			**1.60E+1**		**4.41E-1**	**1.01E-5**	**3.95E-6**
Total Tetrachlorobiphenyls	mg/kg			**4.39E+0**		**1.37E-1**	**2.54E-6**	**3.03E-7**
Total Trichlorobiphenyls	mg/kg			**7.50E-1**		**4.69E-2**	**6.56E-7**	**2.63E-7**
Total PCB Congeners (ND = 0)	mg/kg	1.8E-4	SL-6, PQL Adj.	**3.69E+1 J**		**1.07E+0 J**	**5.69E-6 J**	**9.05E-6 J**
Total PCB TEQ (ND = 0)	mg/kg	7.0E-7	SL-6, PQL Adj.	**9.64E-4**		**2.47E-5**	< 2.48E-6 U	< 2.49E-6 U
Total Trichlorobiphenyls	mg/kg				**3.63E-3**	**2.04E-3**	**1.11E-5 J**	**3.65E-4**
Total PCB Congeners (ND = 0)	mg/kg	1.8E-4	SL-3, PQL Adj.		**6.05E+0 J**	**2.16E-1 J**	**3.62E-2 J**	**1.22E-1 J**
Total PCB TEQ (ND = 0)	mg/kg	7.0E-7	SL-3, PQL Adj.		**3.08E-4 J**	**7.57E-6**	**1.69E-6**	**1.34E-6 J**

Notes:

Bold = detected

Gray Shaded = Nondetect result has an RDL that exceeds the Proposed RI CUL

Blue Shaded = Detected result exceeded the Proposed RI CUL

Proposed RI CUL = Proposed Remedial Investigation Cleanup Level

mg/kg = milligrams per kilogram

U = Analyte not detected at or above the RDL shown

J = Result value estimated

UJ = Analyte not detected, and the RDL shown is an estimate

(ND = 0) = calculated using zero for nondetected components

TEQ = Toxic Equivalency

A = One or more of the nine common Aroclor groups (1016, 1221, 1232, 1242, 1248, 1254, 1260, 1262, and 1268) were not reported, and the Total PCB Aroclors (ND = 0) sum assumes the missing components were nondetect.

Total PCB Aroclors (ND = 0) are the sum of Aroclors available, with nondetects = 0, unless all Aroclors were not detected, in which case the Total PCB Aroclors concentration is shown as nondetect at the maximum RDL for any individual Aroclor.

RDL = Reported Detection Limit

Table I.6.C.2. Individual PCB Congeners and Co-Located Aroclors in Saturated Soil

South Park Marina Site, Seattle, Washington

				Location	MW-19D	MW-22	SB-42	
				Sample Date	09/16/22	09/14/22	09/22/22	09/22/22
				Sample	MW-19D-10-11-TIG	MW-22-17.5-18.5-TIG	SB-42-6-8-TIG	SB-42-10-11
Analyte	Unit	Proposed RI CUL	Basis of CUL					
Polychlorinated Biphenyl Aroclors								
Aroclor 1016	mg/kg							< 0.8 U
Aroclor 1221	mg/kg							< 0.8 U
Aroclor 1232	mg/kg							< 0.8 U
Aroclor 1242	mg/kg							**3.6**
Aroclor 1248	mg/kg							< 0.8 U
Aroclor 1254	mg/kg							**12**
Aroclor 1260	mg/kg							< 0.8 U
Aroclor 1262	mg/kg							< 0.8 U
Aroclor 1268	mg/kg							< 0.8 U
Total PCB Aroclors (ND = 0)	mg/kg	0.036	SL-6, PQL Adj.					**15.6**
Polychlorinated Biphenyl Congeners								
PCB-001	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**1.44E+0**	**6.63E-2**
PCB-002	mg/kg				**3.19E-6**	< 2.47E-6 U	**4.78E-2**	**7.23E-3**
PCB-003	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**2.29E-1**	**4.26E-2**
PCB-004/010	mg/kg				< 4.89E-6 U	< 4.93E-6 U	**5.65E-1**	**4.40E-2**
PCB-005/008	mg/kg				< 4.89E-6 U	< 4.93E-6 U	**1.42E+0**	**6.17E-2**
PCB-006	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**3.02E-1**	**1.37E-2**
PCB-007/009	mg/kg				< 4.89E-6 U	< 4.93E-6 U	**2.46E-1**	**1.07E-2**
PCB-011	mg/kg				**4.00E-5**	< 2.47E-6 U	**6.50E-3**	**3.26E-4**
PCB-012/013	mg/kg				< 4.89E-6 U	< 4.93E-6 U	**9.93E-2**	**5.80E-3**
PCB-014	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**2.03E-4 J**	< 8.20E-6 U
PCB-015	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**4.40E-1**	**3.57E-2**
PCB-016/032	mg/kg				< 4.89E-6 U	< 4.93E-6 U	**8.33E-1**	**4.75E-2**
PCB-017	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**5.72E-1**	**3.25E-2**
PCB-018	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**1.45E+0**	**7.95E-2**
PCB-019	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**1.19E-1**	**7.02E-3**
PCB-020/021/033	mg/kg				< 7.33E-6 U	< 7.40E-6 U	**1.07E+0**	**4.95E-2**
PCB-022	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**5.86E-1**	**2.98E-2**
PCB-023	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**1.34E-3**	**8.02E-5**
PCB-024/027	mg/kg				< 4.89E-6 U	< 4.93E-6 U	**8.98E-2**	**5.30E-3**
PCB-025	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**1.08E-1**	**5.82E-3**
PCB-026	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**2.48E-1**	**1.52E-2**
PCB-028	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**1.51E+0**	**8.83E-2**
PCB-029	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**1.02E-2**	**5.46E-4**
PCB-030	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**4.58E-4**	**3.42E-5**
PCB-031	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**1.62E+0**	**9.32E-2**
PCB-034	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**7.52E-3**	**6.02E-4**
PCB-035	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**1.02E-2**	**7.64E-4**
PCB-036	mg/kg				< 2.44E-6 U	< 2.47E-6 U	< 2.26E-4 U	< 8.36E-6 U
PCB-037	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**3.64E-1**	**2.52E-2**
PCB-038	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**1.07E-2**	**5.33E-4**
PCB-039	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**9.43E-4**	**1.17E-4**
PCB-040	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**3.32E-1 J**	**2.18E-2**
PCB-041/064/071/072	mg/kg				< 9.77E-6 U	< 9.87E-6 U	**1.57E+0 J**	**1.02E-1**
PCB-042/059	mg/kg				< 4.89E-6 U	< 4.93E-6 U	**4.97E-1 J**	**3.22E-2**
PCB-043/049	mg/kg				< 4.89E-6 U	< 4.93E-6 U	**1.92E+0 J**	**1.12E-1**
PCB-044	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**2.70E+0 J**	**1.54E-1**
PCB-045	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**2.95E-1 J**	**1.54E-2**
PCB-046	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**1.18E-1 J**	**6.16E-3**
PCB-047	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**4.64E-1 J**	**2.76E-2**
PCB-048/075	mg/kg				< 4.89E-6 U	< 4.93E-6 U	**4.04E-1 J**	**2.29E-2**
PCB-050	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**3.02E-3 J**	**1.90E-4**
PCB-051	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**7.74E-2 J**	**3.69E-3**
PCB-052/069	mg/kg				< 4.89E-6 U	< 4.93E-6 U	**4.33E+0 J**	**2.50E-1**
PCB-053	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**3.06E-1 J**	**1.60E-2**
PCB-054	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**3.13E-3 J**	**1.81E-4**
PCB-055	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**3.47E-3**	**2.34E-3**
PCB-056/060	mg/kg				< 4.89E-6 U	< 4.93E-6 U	**1.36E+0**	**7.26E-2**
PCB-057	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**6.21E-3**	**4.12E-4**
PCB-058	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**3.12E-3**	**3.61E-4**
PCB-061/070	mg/kg				< 4.89E-6 U	< 4.93E-6 U	**4.25E+0**	**2.49E-1**
PCB-062	mg/kg				< 2.44E-6 U	< 2.47E-6 U	< 2.26E-4 U	< 8.63E-6 U
PCB-063	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**8.66E-2**	**5.50E-3**
PCB-065	mg/kg				< 2.44E-6 U	< 2.47E-6 U	< 2.26E-4 U	< 7.72E-6 U
PCB-066/076	mg/kg				< 4.89E-6 U	< 4.93E-6 U	**2.01E+0**	**1.24E-1**
PCB-067	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**3.99E-2**	**2.43E-3**
PCB-068	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**4.66E-3 J**	**6.76E-4**
PCB-073	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**3.10E-3 J**	**1.66E-4**
PCB-074	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**1.23E+0**	**7.01E-2**
PCB-077	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**1.29E-1**	**7.59E-3**
PCB-078	mg/kg				< 2.44E-6 U	< 2.47E-6 U	< 2.26E-4 U	< 8.39E-6 U
PCB-079	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**5.51E-2**	**3.59E-3**
PCB-080	mg/kg				< 2.44E-6 U	< 2.47E-6 U	< 2.26E-4 U	< 6.59E-6 U

Table I.6.C.2. Individual PCB Congeners and Co-Located Aroclors in Saturated Soil

South Park Marina Site, Seattle, Washington

				Location	MW-19D	MW-22	SB-42	
				Sample Date	09/16/22	09/14/22	09/22/22	09/22/22
				Sample	MW-19D-10-11-TIG	MW-22-17.5-18.5-TIG	SB-42-6-8-TIG	SB-42-10-11
Analyte	Unit	Proposed RI CUL	Basis of CUL					
PCB-081	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**6.59E-2**	**1.65E-3**
PCB-082	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**7.30E-1**	**4.21E-2**
PCB-083	mg/kg				< 2.44E-6 U	< 2.47E-6 U	< 2.26E-4 U	**1.02E-4**
PCB-084/092	mg/kg				< 4.89E-6 U	< 4.93E-6 U	**3.04E+0**	**1.84E-1**
PCB-085/116	mg/kg				< 4.89E-6 U	< 4.93E-6 U	**1.02E+0**	**6.54E-2**
PCB-086	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**2.10E-2**	**8.56E-4**
PCB-087/117/125	mg/kg				< 7.33E-6 U	< 7.40E-6 U	**2.64E+0**	**1.67E-1**
PCB-088/091	mg/kg				< 4.89E-6 U	< 4.93E-6 U	**8.36E-1**	**5.31E-2**
PCB-089	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**5.72E-2**	**3.40E-3**
PCB-090/101	mg/kg				< 4.89E-6 U	< 4.93E-6 U	**7.86E+0**	**5.18E-1**
PCB-093	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**3.54E-2**	**1.03E-2**
PCB-094	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**2.36E-2**	**1.33E-3**
PCB-095/098/102	mg/kg				< 7.33E-6 U	**1.39E-6 J**	**4.65E+0**	**2.98E-1**
PCB-096	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**2.83E-2 J**	**1.88E-3**
PCB-097	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**1.97E+0**	**1.24E-1**
PCB-099	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**3.12E+0**	**1.69E-1**
PCB-100	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**9.14E-3 J**	**7.40E-4**
PCB-103	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**2.31E-2 J**	**1.90E-3**
PCB-104	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**1.69E-4 J**	< 8.55E-6 U
PCB-105	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**2.91E+0**	**1.74E-1**
PCB-106/118	mg/kg				< 4.89E-6 U	**1.12E-6 J**	**6.51E+0**	**3.90E-1**
PCB-107/109	mg/kg				< 4.89E-6 U	< 4.93E-6 U	**3.64E-1**	**2.02E-2**
PCB-108/112	mg/kg				< 4.89E-6 U	< 4.93E-6 U	**2.70E-1**	**1.65E-2**
PCB-110	mg/kg				< 2.44E-6 U	**2.47E-6**	**7.21E+0**	**4.62E-1**
PCB-111/115	mg/kg				< 4.89E-6 U	< 4.93E-6 U	**1.12E-1**	**5.68E-3**
PCB-113	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**2.16E-2**	**5.07E-4**
PCB-114	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**1.64E-1**	**9.69E-3**
PCB-119	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**9.50E-2**	**6.71E-3**
PCB-120	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**5.25E-3**	**6.84E-4**
PCB-121	mg/kg				< 2.44E-6 U	< 2.47E-6 U	< 2.26E-4 U	**1.11E-3**
PCB-122	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**7.03E-2**	**4.59E-3**
PCB-123	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**9.79E-2**	**5.12E-3**
PCB-124	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**2.51E-1**	**1.40E-2**
PCB-126	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**1.85E-2**	**1.45E-3**
PCB-127	mg/kg				< 2.44E-6 U	< 2.47E-6 U	< 2.26E-4 U	< 1.47E-5 U
PCB-128/162	mg/kg				< 4.89E-6 U	< 4.93E-6 U	**1.09E+0**	**7.21E-2**
PCB-129	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**3.25E-1**	**2.19E-2**
PCB-130	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**4.43E-1**	**2.67E-2**
PCB-131/133	mg/kg				< 4.89E-6 U	< 4.93E-6 U	**1.51E-1**	**7.68E-3**
PCB-132/161	mg/kg				< 4.89E-6 U	**8.15E-7 J**	**1.65E+0**	**8.56E-2**
PCB-134/143	mg/kg				< 4.89E-6 U	< 4.93E-6 U	**3.35E-1**	**1.76E-2**
PCB-135	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**4.60E-1 J**	**3.23E-2**
PCB-136	mg/kg				**2.59E-6 J**	< 2.47E-6 U	**5.94E-1 J**	**4.25E-2**
PCB-137	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**3.83E-1**	**2.53E-2**
PCB-138/163/164	mg/kg				< 7.33E-6 U	< 7.40E-6 U	**5.95E+0**	**3.95E-1**
PCB-139/149	mg/kg				< 4.89E-6 U	**2.23E-6 J**	**3.22E+0 J**	**2.11E-1**
PCB-140	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**1.67E-2 J**	**1.50E-3**
PCB-141	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**1.06E+0**	**6.89E-2**
PCB-142	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**9.76E-4**	**7.35E-5**
PCB-144	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**1.98E-1 J**	**1.48E-2**
PCB-145	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**1.64E-3 J**	**1.20E-4**
PCB-146/165	mg/kg				< 4.89E-6 U	< 4.93E-6 U	**6.33E-1**	**3.16E-2**
PCB-147	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**8.97E-2 J**	**6.56E-3**
PCB-148	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**1.85E-3 J**	**1.50E-4**
PCB-150	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**3.47E-3 J**	**2.47E-4**
PCB-151	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**6.74E-1 J**	**5.38E-2**
PCB-152	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**4.02E-3 J**	**2.90E-4**
PCB-153	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**4.37E+0**	**2.84E-1**
PCB-154	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**3.22E-2 J**	**2.37E-3**
PCB-155	mg/kg				< 2.44E-6 U	< 2.47E-6 U	< 2.26E-4 U	< 6.72E-6 U
PCB-156	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**7.05E-1**	**4.29E-2**
PCB-157	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**1.57E-1**	**1.00E-2**
PCB-158/160	mg/kg				< 4.89E-6 U	< 4.93E-6 U	**7.67E-1**	**5.19E-2**
PCB-159	mg/kg				< 2.44E-6 U	< 2.47E-6 U	< 2.26E-4 U	< 1.33E-5 U
PCB-166	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**2.26E-2**	**1.85E-3**
PCB-167	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**2.52E-1**	**1.64E-2**
PCB-168	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**5.77E-3**	**3.38E-4**
PCB-169	mg/kg				< 2.44E-6 U	< 2.47E-6 U	< 2.26E-4 U	< 1.83E-5 U
PCB-170	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**7.52E-1**	**4.73E-2**
PCB-171	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**2.16E-1**	**1.30E-2**
PCB-172	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**9.59E-2**	**6.65E-3**
PCB-173	mg/kg				< 2.44E-6 U	< 2.47E-6 U	**1.49E-2**	**1.06E-3**
PCB-174	mg/kg				**1.59E-5**	< 2.47E-6 U	**7.29E-1**	**5.03E-2**

Table I.6.C.2. Individual PCB Congeners and Co-Located Aroclors in Saturated Soil

South Park Marina Site, Seattle, Washington

			Location	MW-19D	MW-22	SB-42	
			Sample Date	09/16/22	09/14/22	09/22/22	09/22/22
			Sample	MW-19D-10-11-TIG	MW-22-17.5-18.5-TIG	SB-42-6-8-TIG	SB-42-10-11
Analyte	Unit	Proposed RI CUL	Basis of CUL				
PCB-175	mg/kg			< 2.44E-6 U	< 2.47E-6 U	**2.18E-2**	**1.75E-3**
PCB-176	mg/kg			< 2.44E-6 U	< 2.47E-6 U	**8.16E-2**	**6.90E-3**
PCB-177	mg/kg			< 2.44E-6 U	< 2.47E-6 U	**4.17E-1**	**2.65E-2**
PCB-178	mg/kg			< 2.44E-6 U	< 2.47E-6 U	**9.91E-2**	**8.38E-3**
PCB-179	mg/kg			< 2.44E-6 U	< 2.47E-6 U	**2.54E-1**	**2.30E-2**
PCB-180	mg/kg			< 2.44E-6 U	< 2.47E-6 U	**1.56E+0**	**1.02E-1**
PCB-181	mg/kg			< 2.44E-6 U	< 2.47E-6 U	**5.53E-3**	**4.37E-4**
PCB-182/187	mg/kg			< 4.89E-6 U	< 4.93E-6 U	**6.42E-1**	**5.25E-2**
PCB-183	mg/kg			< 2.44E-6 U	< 2.47E-6 U	**3.56E-1**	**2.69E-2**
PCB-184	mg/kg			< 2.44E-6 U	< 2.47E-6 U	< 2.26E-4 U	**2.89E-5**
PCB-185	mg/kg			< 2.44E-6 U	< 2.47E-6 U	**6.54E-2**	**5.56E-3**
PCB-186	mg/kg			< 2.44E-6 U	< 2.47E-6 U	**1.75E-4 J**	**1.90E-5**
PCB-188	mg/kg			< 2.44E-6 U	< 2.47E-6 U	**4.24E-4**	**2.65E-5**
PCB-189	mg/kg			< 2.44E-6 U	< 2.47E-6 U	**2.93E-2**	**1.99E-3**
PCB-190	mg/kg			< 2.44E-6 U	< 2.47E-6 U	**1.16E-1**	**9.14E-3**
PCB-191	mg/kg			< 2.44E-6 U	< 2.47E-6 U	**2.77E-2**	**1.75E-3**
PCB-192	mg/kg			< 2.44E-6 U	< 2.47E-6 U	< 2.26E-4 U	< 9.53E-6 U
PCB-193	mg/kg			< 2.44E-6 U	< 2.47E-6 U	**6.70E-2**	**4.84E-3**
PCB-194	mg/kg			< 2.44E-6 U	< 2.47E-6 U	**2.57E-1**	**2.04E-2**
PCB-195	mg/kg			< 2.44E-6 U	< 2.47E-6 U	**9.40E-2**	**9.18E-3**
PCB-196/203	mg/kg			< 4.89E-6 U	< 4.93E-6 U	**2.06E-1**	**2.30E-2**
PCB-197	mg/kg			< 2.44E-6 U	< 2.47E-6 U	**8.32E-3**	**9.43E-4**
PCB-198	mg/kg			< 2.44E-6 U	< 2.47E-6 U	**6.96E-3**	**8.54E-4**
PCB-199	mg/kg			< 2.44E-6 U	< 2.47E-6 U	**1.91E-1**	**2.28E-2**
PCB-200	mg/kg			< 2.44E-6 U	< 2.47E-6 U	**2.57E-2**	**3.53E-3**
PCB-201	mg/kg			< 2.44E-6 U	< 2.47E-6 U	**2.69E-2**	**3.74E-3**
PCB-202	mg/kg			< 2.44E-6 U	< 2.47E-6 U	**3.34E-2**	**4.80E-3**
PCB-204	mg/kg			< 2.44E-6 U	< 2.47E-6 U	< 2.26E-4 U	< 1.30E-5 U
PCB-205	mg/kg			< 2.44E-6 U	< 2.47E-6 U	**9.94E-3**	**8.39E-4**
PCB-206	mg/kg			< 2.44E-6 U	< 2.47E-6 U	**5.63E-2**	**6.03E-3**
PCB-207	mg/kg			< 2.44E-6 U	< 2.47E-6 U	**7.73E-3**	**1.01E-3**
PCB-208	mg/kg			< 2.44E-6 U	< 2.47E-6 U	**1.17E-2**	**1.60E-3**
PCB-209	mg/kg			**3.62E-6 J**	< 2.47E-6 U	**6.34E-3**	**4.30E-4**
Total Decachlorobiphenyls	mg/kg			**3.62E-6**	< 1.74E-7 U	**6.34E-3**	
Total Dichlorobiphenyls	mg/kg			**4.00E-5**	< 1.14E-6 U	**3.08E+0**	**1.72E-1**
Total Heptachlorobiphenyls	mg/kg			**1.01E-4**	< 6.18E-6 U	**5.56E+0**	**3.90E-1**
Total Hexachlorobiphenyls	mg/kg			**9.25E-5**	**3.05E-6**	**2.36E+1**	**1.47E+0**
Total Monochlorobiphenyls	mg/kg			**3.93E-6**	< 8.75E-7 U	**1.72E+0**	**1.16E-1**
Total Nonachlorobiphenyls	mg/kg			**5.56E-6**	< 2.10E-7 U	**7.57E-2**	**8.64E-3**
Total Octachlorobiphenyls	mg/kg			**2.88E-5**	< 6.32E-7 U	**8.59E-1**	**9.01E-2**
Total Pentachlorobiphenyls	mg/kg			**1.07E-5**	**4.99E-6**	**4.42E+1**	**2.70E+0**
Total Tetrachlorobiphenyls	mg/kg			**1.67E-6**	< 3.70E-7 U	**2.22E+1**	**1.32E+0**
Total Trichlorobiphenyls	mg/kg			< 5.19E-7 U	< 4.55E-7 U	**8.61E+0**	**4.82E-1**
Total PCB Congeners (ND = 0)	mg/kg	1.8E-4	SL-6, PQL Adj.	**6.53E-5 J**	**8.03E-6 J**	**1.10E+2 J**	**6.84E+0**
Total PCB TEQ (ND = 0)	mg/kg	7.0E-7	SL-6, PQL Adj.	< 2.44E-6 U	< 2.47E-6 U	**2.01E-3**	**1.54E-4**
Total Trichlorobiphenyls	mg/kg				**1.04E-5**	**1.65E+0**	**5.75E-5 J**
Total PCB Congeners (ND = 0)	mg/kg	1.8E-4	SL-3, PQL Adj.		**7.28E-4 J**	**6.68E+1 J**	**2.26E-2 J**
Total PCB TEQ (ND = 0)	mg/kg	7.0E-7	SL-3, PQL Adj.		**3.32E-10 J**	**1.88E-3**	**6.98E-7 J**

Notes:

Bold = detected

Gray Shaded = Nondetect result has an RDL that exceeds the Proposed RI CUL

Blue Shaded = Detected result exceeded the Proposed RI CUL

Proposed RI CUL = Proposed Remedial Investigation Cleanup Level

mg/kg = milligrams per kilogram

U = Analyte not detected at or above the RDL shown

J = Result value estimated

UJ = Analyte not detected, and the RDL shown is an estimate

(ND = 0) = calculated using zero for nondetected components

TEQ = Toxic Equivalency

A = One or more of the nine common Aroclor groups (1016, 1221, 1232, 1242, 1248, 1254, 1260, 1262, and 1268) were not reported, and the Total PCB Aroclors (ND = 0) sum assumes the missing components were nondetect.

Total PCB Aroclors (ND = 0) are the sum of Aroclors available, with nondetects = 0, unless all Aroclors were not detected, in which case the Total PCB Aroclors concentration is shown as nondetect at the maximum RDL for any individual Aroclor.

RDL = Reported Detection Limit

Table I.6.D. Individual PCB Aroclors and Congeners in Catch Basin Solids

South Park Marina Site, Seattle, Washington

Location		CB-01	CB-02		CB-03	CB-04	CB-05	
Sample Date		02/11/16	02/11/16	04/20/21	02/11/16	02/11/16	02/11/16	10/07/22
Sample		SPM-CB-01-02112016	SPM-CB-02-02112016	CB-02-210420	SPM-CB-03-02112016	SPM-CB-04-02112016	SPM-CB-05-02112016	CB-05-221007
Analyte	**Unit**							
Polychlorinated Biphenyl Aroclors								
Aroclor 1016	mg/kg	< 4 U	< 0.04 U	< 0.0436 U	< 20 U	< 0.8 U	< 0.08 UJ	< 0.004 U
Aroclor 1221	mg/kg	< 4 U	< 0.04 U	< 0.0436 U	< 20 U	< 0.8 U	< 0.08 UJ	< 0.004 U
Aroclor 1232	mg/kg	< 4 U	< 0.04 U	< 0.0436 U	< 20 U	< 0.8 U	< 0.08 UJ	< 0.004 U
Aroclor 1242	mg/kg	< 4 U	< 0.04 U	< 0.0436 U	< 20 U	< 0.8 U	< 0.08 UJ	< 0.004 U
Aroclor 1248	mg/kg	< 4 U	< 0.04 U	**0.0393 J**	< 20 U	< 0.8 U	< 0.08 UJ	< 0.004 U
Aroclor 1254	mg/kg	< 4 U	< 0.04 U	**0.124**	< 20 U	< 0.8 U	**0.35 J**	**0.11**
Aroclor 1260	mg/kg	< 4 U	**0.57**	**0.301**	< 20 U	< 0.8 U	**0.43 J**	**0.13**
Aroclor 1262	mg/kg	< 4 U	< 0.04 U	< 0.0436 U	< 20 U	< 0.8 U	< 0.08 UJ	< 0.004 U
Aroclor 1268	mg/kg	< 4 U	< 0.04 U	< 0.0436 U	< 20 U	< 0.8 U	< 0.08 UJ	< 0.004 U
Total PCB Aroclors (ND = 0)	mg/kg	< 4 U	**0.57**	**0.464 J**	< 20 U	< 0.8 U	**0.78 J**	**0.24**
Polychlorinated Biphenyl Congeners								
PCB-001	mg/kg	**3.74E-5 J**	**2.83E-5**		**2.22E-5 J**	**9.21E-6 J**	**6.43E-4**	
PCB-002	mg/kg	**5.37E-5 J**	**1.89E-5**		**1.56E-5 J**	< 9.46E-6 U	**7.70E-5**	
PCB-003	mg/kg	**7.46E-5**	**2.98E-5**		**2.20E-5 J**	**1.45E-5 J**	**1.84E-4**	
PCB-004/010	mg/kg	**1.30E-4**	**6.12E-5**		< 2.09E-5 U	< 4.50E-5 U	**2.88E-4**	
PCB-005/008	mg/kg	**4.22E-4**	**2.38E-4**		**1.23E-4**	**1.05E-4 J**	**5.84E-4**	
PCB-006	mg/kg	**1.04E-4**	**5.01E-5**		< 1.70E-5 U	< 3.48E-5 U	**1.79E-4**	
PCB-007/009	mg/kg	< 1.20E-4 U	< 1.42E-5 U		< 1.68E-5 U	< 3.44E-5 U	< 1.22E-4 U	
PCB-011	mg/kg	**1.34E-3**	**2.94E-3**		**3.13E-4**	**8.39E-4**	**1.17E-3**	
PCB-012/013	mg/kg	< 9.52E-5 U	< 3.43E-5 U		< 1.70E-5 U	< 3.44E-5 U	**7.73E-5 J**	
PCB-014	mg/kg	< 1.11E-4 U	< 1.25E-5 U		< 1.46E-5 U	< 2.97E-5 U	< 1.70E-5 U	
PCB-015	mg/kg	**5.57E-4**	**2.45E-4**		**1.31E-4**	**8.98E-5**	**3.43E-4**	
PCB-016/032	mg/kg	**6.31E-4**	**4.01E-4**		**1.92E-4**	**1.27E-4**	**4.32E-4**	
PCB-017	mg/kg	**3.21E-4**	**2.19E-4**		**9.18E-5**	**6.89E-5**	**2.19E-4**	
PCB-018	mg/kg	**8.89E-4**	**5.74E-4**		**2.75E-4**	**1.93E-4**	**6.50E-4**	
PCB-019	mg/kg	**1.02E-4**	**5.16E-5**		**2.72E-5 J**	**1.43E-5 J**	**5.30E-5 J**	
PCB-020/021/033	mg/kg	**7.26E-4**	**5.34E-4**		**2.31E-4**	**2.00E-4**	**5.71E-4**	
PCB-022	mg/kg	**4.53E-4**	**3.13E-4**		**1.62E-4**	**1.19E-4**	**3.77E-4**	
PCB-023	mg/kg	< 6.51E-6 U	< 2.35E-6 U		< 2.33E-6 U	< 5.66E-6 U	< 3.25E-6 U	
PCB-024/027	mg/kg	**8.58E-5 J**	**4.59E-5**		**2.29E-5 J**	< 1.34E-5 U	**4.66E-5 J**	
PCB-025	mg/kg	**1.10E-4**	**6.37E-5**		**3.01E-5 J**	**2.50E-5 J**	**7.27E-5**	
PCB-026	mg/kg	**2.06E-4**	**1.16E-4**		**6.06E-5**	**4.78E-5 J**	**1.54E-4**	
PCB-028	mg/kg	**1.27E-3**	**8.05E-4**		**3.48E-4**	**2.55E-4**	**8.89E-4**	
PCB-029	mg/kg	< 1.08E-5 U	< 8.35E-6 U		**3.14E-6 J**	< 5.66E-6 U	**6.15E-6 J**	
PCB-030	mg/kg	< 7.80E-6 U	< 1.70E-6 U		< 1.78E-6 U	< 3.78E-6 U	< 2.46E-6 U	
PCB-031	mg/kg	**9.79E-4**	**6.85E-4**		**3.01E-4**	**2.33E-4**	**9.46E-4**	
PCB-034	mg/kg	< 6.05E-6 U	< 1.67E-6 U		< 1.40E-6 U	< 5.26E-6 U	**2.96E-6 J**	
PCB-035	mg/kg	**1.33E-4**	**3.21E-4**		**2.79E-5 J**	**3.35E-5 J**	**1.48E-4**	
PCB-036	mg/kg	**2.21E-5 J**	**9.81E-5**		**3.64E-6 J**	**9.21E-6 J**	**4.06E-5 J**	
PCB-037	mg/kg	**8.55E-4**	**4.24E-4**		**2.02E-4**	**1.43E-4**	**5.17E-4**	
PCB-038	mg/kg	< 6.45E-6 U	< 4.66E-6 U		**3.35E-6 J**	< 5.74E-6 U	**9.73E-6 J**	
PCB-039	mg/kg	< 6.35E-6 U	**3.04E-6**		< 2.41E-6 U	**7.84E-6 J**	**3.54E-6 J**	
PCB-040	mg/kg	**3.21E-4**	**2.30E-4**		**9.19E-5**	**6.90E-5**	**5.04E-4**	
PCB-041/064/071/072	mg/kg	**1.45E-3**	**1.05E-3**		**4.27E-4**	**3.05E-4**	**2.53E-3**	
PCB-042/059	mg/kg	**4.99E-4**	**3.64E-4**		**1.32E-4**	**1.06E-4 J**	**6.06E-4**	
PCB-043/049	mg/kg	**1.06E-3**	**8.61E-4**		**3.18E-4**	**2.28E-4**	**2.47E-3**	
PCB-044	mg/kg	**1.76E-3**	**1.42E-3**		**5.63E-4**	**4.01E-4**	**5.41E-3**	
PCB-045	mg/kg	**1.96E-4**	**1.49E-4**		**6.19E-5**	**4.45E-5 J**	**2.22E-4**	
PCB-046	mg/kg	**1.12E-4**	**7.11E-5**		**2.64E-5 J**	**2.17E-5 J**	**1.19E-4**	
PCB-047	mg/kg	**3.30E-4**	**2.56E-4**		**8.73E-5**	**6.40E-5**	**4.74E-4**	
PCB-048/075	mg/kg	**2.70E-4**	< 2.74E-4 U		**7.92E-5 J**	**5.23E-5 J**	**3.01E-4**	
PCB-050	mg/kg	**7.75E-6 J**	**3.35E-6**		< 3.26E-6 U	< 7.34E-6 U	**3.58E-6 J**	
PCB-051	mg/kg	**6.68E-5**	**4.66E-5**		**1.79E-5 J**	**1.61E-5 J**	**6.22E-5**	
PCB-052/069	mg/kg	**1.91E-3**	**1.82E-3**		**6.51E-4**	**4.97E-4**	**8.07E-3**	
PCB-053	mg/kg	**1.91E-4**	**1.45E-4**		**5.68E-5 J**	**4.18E-5 J**	**2.97E-4**	
PCB-054	mg/kg	< 3.77E-6 U	< 3.70E-6 U		< 2.48E-6 U	< 5.58E-6 U	**3.08E-6 J**	
PCB-055	mg/kg	**4.13E-5 J**	**2.96E-5**		**1.29E-5 J**	**9.07E-6 J**	**9.11E-5**	
PCB-056/060	mg/kg	**1.18E-3**	**1.01E-3**		**3.56E-4**	**2.81E-4**	**2.39E-3**	
PCB-057	mg/kg	< 3.40E-6 U	< 5.81E-6 U		**3.53E-6 J**	< 5.98E-6 U	**1.29E-5 J**	
PCB-058	mg/kg	**6.86E-6 J**	< 4.27E-6 U		**1.70E-6 J**	< 5.89E-6 U	**8.01E-6 J**	
PCB-061/070	mg/kg	**2.43E-3**	**2.17E-3**		**8.10E-4**	**6.28E-4**	**8.67E-3**	
PCB-062	mg/kg	< 3.82E-6 U	< 2.99E-6 U		< 2.45E-6 U	< 5.85E-6 U	< 3.94E-6 U	
PCB-063	mg/kg	**6.62E-5**	**5.12E-5**		< 1.62E-5 U	**1.34E-5 J**	**1.27E-4**	
PCB-065	mg/kg	< 3.94E-6 U	< 3.08E-6 U		< 2.53E-6 U	< 6.03E-6 U	< 4.06E-6 U	
PCB-066/076	mg/kg	**1.47E-3**	**1.46E-3**		**4.71E-4**	**3.61E-4**	**3.78E-3**	
PCB-067	mg/kg	**7.04E-5**	**5.00E-5**		**1.85E-5 J**	< 1.58E-5 U	**6.77E-5**	
PCB-068	mg/kg	**1.44E-5 J**	**1.06E-5**		**3.03E-6 J**	**1.43E-5 J**	**1.54E-5 J**	
PCB-073	mg/kg	< 3.77E-6 U	< 2.83E-6 U		< 2.53E-6 U	< 6.11E-6 U	< 4.12E-6 U	
PCB-074	mg/kg	**7.71E-4**	**6.29E-4**		**2.41E-4**	**2.04E-4**	**1.88E-3**	
PCB-077	mg/kg	**5.03E-4**	**3.91E-4**		**1.25E-4**	**1.01E-4**	**6.56E-4**	
PCB-078	mg/kg	< 3.28E-6 U	< 2.18E-5 U		< 2.61E-6 U	< 5.40E-6 U	< 3.90E-6 U	
PCB-079	mg/kg	**4.81E-5 J**	**4.95E-5**		**1.81E-5 J**	**1.64E-5 J**	**2.09E-4**	
PCB-080	mg/kg	< 2.84E-6 U	< 4.52E-6 U		< 2.02E-6 U	< 4.46E-6 U	< 3.13E-6 U	
PCB-081	mg/kg	**1.89E-5 J**	**7.21E-5**		**6.82E-6 J**	**2.43E-5 J**	**5.32E-5 J**	

Table I.6.D. Individual PCB Aroclors and Congeners in Catch Basin Solids

South Park Marina Site, Seattle, Washington

Location		CB-01	CB-02		CB-03	CB-04	CB-05	
Sample Date		02/11/16	02/11/16	04/20/21	02/11/16	02/11/16	02/11/16	10/07/22
Sample		SPM-CB-01-02112016	SPM-CB-02-02112016	CB-02-210420	SPM-CB-03-02112016	SPM-CB-04-02112016	SPM-CB-05-02112016	CB-05-221007
Analyte	Unit							
PCB-082	mg/kg	**7.90E-4**	**7.01E-4**		**2.50E-4**	**1.85E-4**	**3.56E-3**	
PCB-083	mg/kg	< 9.38E-6 U	< 1.87E-6 U		< 3.98E-6 U	< 9.68E-6 U	< 5.85E-6 U	
PCB-084/092	mg/kg	**1.83E-3**	**2.85E-3**		**6.70E-4**	**5.46E-4**	**1.08E-2**	
PCB-085/116	mg/kg	**8.12E-4**	**7.39E-4**		**2.64E-4**	**1.98E-4**	**4.25E-3**	
PCB-086	mg/kg	< 1.51E-5 U	< 3.00E-6 U		< 6.40E-6 U	< 1.56E-5 U	< 9.40E-6 U	
PCB-087/117/125	mg/kg	**1.95E-3**	**2.40E-3**		**6.61E-4**	**5.92E-4**	**1.10E-2**	
PCB-088/091	mg/kg	**5.84E-4**	**5.92E-4**		**1.95E-4**	**1.49E-4**	**3.17E-3**	
PCB-089	mg/kg	**5.01E-5 J**	< 3.50E-5 U		**1.31E-5 J**	< 1.36E-5 U	**1.50E-4**	
PCB-090/101	mg/kg	**4.98E-3**	**1.11E-2**		**1.82E-3**	**1.67E-3**	**2.53E-2**	
PCB-093	mg/kg	< 1.55E-5 U	< 2.89E-6 U		< 6.05E-6 U	< 1.34E-5 U	< 9.24E-6 U	
PCB-094	mg/kg	**2.15E-5 J**	**1.99E-5**		**9.14E-6 J**	< 1.26E-5 U	**8.32E-5**	
PCB-095/098/102	mg/kg	**3.14E-3**	**7.41E-3**		**1.11E-3**	**9.79E-4**	**1.83E-2**	
PCB-096	mg/kg	**2.81E-5 J**	**2.96E-5**		**1.15E-5 J**	< 1.07E-5 U	**1.40E-4**	
PCB-097	mg/kg	**1.44E-3**	**1.51E-3**		**4.87E-4**	**4.04E-4**	**7.79E-3**	
PCB-099	mg/kg	**1.62E-3**	**1.86E-3**		**6.07E-4**	**4.49E-4**	**9.51E-3**	
PCB-100	mg/kg	**1.10E-5 J**	**1.19E-5**		< 4.94E-6 U	< 1.22E-5 U	**3.97E-5 J**	
PCB-103	mg/kg	**2.43E-5 J**	**6.49E-5**		< 9.24E-6 U	< 1.21E-5 U	**1.02E-4**	
PCB-104	mg/kg	< 8.49E-6 U	< 1.72E-6 U		< 3.77E-6 U	< 9.28E-6 U	< 5.68E-6 U	
PCB-105	mg/kg	**1.94E-3**	**1.80E-3**		**6.61E-4**	**5.21E-4**	**9.97E-3**	
PCB-106/118	mg/kg	**5.05E-3**	**5.99E-3**		**1.78E-3**	**1.48E-3**	**2.68E-2**	
PCB-107/109	mg/kg	**4.29E-4**	**4.78E-4**		**1.35E-4**	**1.12E-4 J**	**1.58E-3**	
PCB-108/112	mg/kg	**1.97E-4**	**2.22E-4**		**6.95E-5 J**	**6.42E-5 J**	**1.10E-3**	
PCB-110	mg/kg	**6.35E-3**	**8.70E-3**		**2.03E-3**	**1.70E-3**	**3.22E-2**	
PCB-111/115	mg/kg	**5.70E-5 J**	**6.57E-5**		**2.39E-5 J**	**2.67E-5 J**	**5.08E-4**	
PCB-113	mg/kg	**5.77E-5 J**	< 1.22E-5 U		**1.11E-5 J**	< 1.01E-5 U	< 6.80E-6 U	
PCB-114	mg/kg	**1.11E-4**	**1.05E-4**		**3.80E-5 J**	**2.54E-5 J**	**5.53E-4**	
PCB-119	mg/kg	**6.22E-5**	**1.05E-4**		**2.04E-5 J**	**1.90E-5 J**	**3.19E-4**	
PCB-120	mg/kg	**1.58E-5 J**	**4.22E-5**		**4.72E-6 J**	< 8.11E-6 U	**3.49E-5 J**	
PCB-121	mg/kg	< 9.33E-6 U	< 1.75E-6 U		< 3.65E-6 U	< 8.07E-6 U	< 5.57E-6 U	
PCB-122	mg/kg	**6.02E-5 J**	**6.30E-5**		**1.80E-5 J**	**1.47E-5 J**	**2.60E-4**	
PCB-123	mg/kg	**1.03E-4**	**6.30E-5**		**2.75E-5 J**	< 1.92E-5 U	**3.10E-4**	
PCB-124	mg/kg	**2.84E-4**	**3.99E-4**		**9.35E-5**	**8.62E-5**	**1.15E-3**	
PCB-126	mg/kg	**1.47E-4**	**1.25E-4**		**4.75E-5 J**	**3.83E-5 J**	**1.95E-4**	
PCB-127	mg/kg	< 1.28E-5 U	< 1.06E-5 U		< 7.79E-6 U	< 1.23E-5 U	< 1.33E-5 U	
PCB-128/162	mg/kg	**1.58E-3**	**2.59E-3**		**5.18E-4**	**4.58E-4**	**6.61E-3**	
PCB-129	mg/kg	**4.71E-4**	**7.19E-4**		**1.55E-4**	**1.40E-4**	**1.91E-3**	
PCB-130	mg/kg	**8.79E-4**	< 2.28E-3 U		**2.76E-4**	**2.98E-4**	**2.59E-3**	
PCB-131	mg/kg	< 1.79E-5 U	< 1.15E-5 U		< 6.88E-6 U	< 1.37E-5 U	< 1.35E-5 U	
PCB-132/161	mg/kg	**2.66E-3**	**8.03E-3**		**9.29E-4**	**1.01E-3**	**1.04E-2**	
PCB-133/142	mg/kg	**2.95E-4**	**6.45E-4**		**9.54E-5 J**	**9.61E-5 J**	**9.46E-4**	
PCB-134/143	mg/kg	**4.39E-4**	**1.23E-3**		**1.52E-4**	**1.54E-4**	**1.79E-3**	
PCB-135	mg/kg	**1.27E-3**	**4.79E-3**		**4.46E-4**	**5.16E-4**	**3.99E-3**	
PCB-136	mg/kg	**9.25E-4**	**4.23E-3**		**3.17E-4**	**4.19E-4**	**3.49E-3**	
PCB-137	mg/kg	**4.13E-4**	**6.46E-4**		**1.30E-4**	**8.93E-5**	**2.01E-3**	
PCB-138/163/164	mg/kg	**1.14E-2**	**3.09E-2**		**3.69E-3**	**4.23E-3**	**3.40E-2**	
PCB-139/149	mg/kg	**7.66E-3**	**3.18E-2**		**2.61E-3**	**3.49E-3**	**2.43E-2**	
PCB-140	mg/kg	**9.12E-5**	**1.17E-4**		**3.03E-5 J**	< 2.40E-5 U	**1.66E-4**	
PCB-141	mg/kg	**2.62E-3**	**8.73E-3**		**8.39E-4**	**1.09E-3**	**6.46E-3**	
PCB-144	mg/kg	**4.37E-4**	**2.05E-3**		< 1.19E-4 U	**2.15E-4**	**1.34E-3**	
PCB-145	mg/kg	< 1.11E-5 U	< 2.87E-6 U		< 3.10E-6 U	< 6.73E-6 U	**1.20E-5 J**	
PCB-146/165	mg/kg	**1.69E-3**	**4.85E-3**		**5.74E-4**	**6.51E-4**	**4.21E-3**	
PCB-147	mg/kg	**1.55E-4**	**1.46E-4**		**4.91E-5 J**	**4.10E-5 J**	**7.03E-4**	
PCB-148	mg/kg	< 1.49E-5 U	< 9.03E-6 U		**4.80E-6 J**	< 8.99E-6 U	< 4.21E-6 U	
PCB-150	mg/kg	**2.65E-5 J**	**4.03E-5**		**8.61E-6 J**	< 7.65E-6 U	**3.77E-5 J**	
PCB-151	mg/kg	**2.13E-3**	**1.07E-2**		**6.87E-4**	**1.09E-3**	**5.63E-3**	
PCB-152	mg/kg	< 1.04E-5 U	< 1.31E-5 U		< 2.90E-6 U	< 6.29E-6 U	**2.89E-5 J**	
PCB-153	mg/kg	**1.00E-2**	**3.31E-2**		**3.34E-3**	**4.21E-3**	**2.61E-2**	
PCB-154	mg/kg	**1.55E-4**	**2.64E-4**		**5.43E-5 J**	**4.98E-5 J**	**2.75E-4**	
PCB-155	mg/kg	< 1.02E-5 U	< 2.47E-6 U		< 2.83E-6 U	< 6.14E-6 U	**4.00E-6 J**	
PCB-156	mg/kg	**1.07E-3**	**2.16E-3**		**3.28E-4**	**3.59E-4**	**3.98E-3**	
PCB-157	mg/kg	**2.47E-4**	**2.93E-4**		**7.53E-5**	**7.30E-5**	**9.18E-4**	
PCB-158/160	mg/kg	**1.25E-3**	**2.84E-3**		**3.98E-4**	**4.34E-4**	**3.86E-3**	
PCB-159	mg/kg	< 1.08E-5 U	< 7.34E-4 U		**4.80E-5 J**	**8.84E-5**	**2.45E-4**	
PCB-166	mg/kg	< 1.16E-5 U	**2.48E-5**		**8.52E-6 J**	**1.12E-5 J**	**1.70E-4**	
PCB-167	mg/kg	**5.93E-4**	**1.05E-3**		**1.85E-4**	**1.98E-4**	**1.56E-3**	
PCB-168	mg/kg	< 1.12E-5 U	< 1.24E-5 U		< 4.29E-6 U	< 8.51E-6 U	**2.93E-5 J**	
PCB-169	mg/kg	**2.86E-5 J**	**2.16E-5**		**6.01E-6 J**	**8.56E-6 J**	**1.19E-5 J**	
PCB-170	mg/kg	**4.55E-3**	**1.57E-2**		**1.45E-3**	**2.08E-3**	**7.66E-3**	
PCB-171	mg/kg	**1.13E-3**	**4.21E-3**		**3.80E-4**	**5.77E-4**	**2.10E-3**	
PCB-172	mg/kg	**9.70E-4**	**3.05E-3**		**3.17E-4**	**4.82E-4**	**1.49E-3**	
PCB-173	mg/kg	**1.10E-4**	**3.90E-4**		**3.87E-5 J**	**5.32E-5 J**	**2.05E-4**	
PCB-174	mg/kg	**4.95E-3**	**1.96E-2**		**1.67E-3**	**2.96E-3**	**9.42E-3**	
PCB-175	mg/kg	**2.23E-4**	**6.92E-4**		**6.26E-5**	**1.04E-4**	**3.01E-4**	
PCB-176	mg/kg	**5.15E-4**	**2.17E-3**		**1.67E-4**	**2.80E-4**	**8.81E-4**	
PCB-177	mg/kg	**2.89E-3**	**1.07E-2**		**9.48E-4**	**1.62E-3**	**5.01E-3**	

Table I.6.D. Individual PCB Aroclors and Congeners in Catch Basin Solids

South Park Marina Site, Seattle, Washington

Location		CB-01	CB-02		CB-03	CB-04	CB-05	
Sample Date		02/11/16	02/11/16	04/20/21	02/11/16	02/11/16	02/11/16	10/07/22
Sample		SPM-CB-01-02112016	SPM-CB-02-02112016	CB-02-210420	SPM-CB-03-02112016	SPM-CB-04-02112016	SPM-CB-05-02112016	CB-05-221007
Analyte	Unit							
PCB-178	mg/kg	**1.04E-3**	**3.47E-3**		**3.16E-4**	**5.31E-4**	**1.46E-3**	
PCB-179	mg/kg	**1.64E-3**	**7.31E-3**		**5.42E-4**	**1.04E-3**	**3.01E-3**	
PCB-180	mg/kg	**1.16E-2**	**3.95E-2**		**3.81E-3**	**6.37E-3**	**1.95E-2**	
PCB-181	mg/kg	< 6.63E-6 U	< 6.02E-6 U		< 6.25E-6 U	< 1.14E-5 U	< 9.02E-6 U	
PCB-182/187	mg/kg	**6.44E-3**	**2.13E-2**		**1.94E-3**	**3.35E-3**	**9.28E-3**	
PCB-183	mg/kg	**2.82E-3**	**9.33E-3**		**8.19E-4**	**1.30E-3**	**3.97E-3**	
PCB-184	mg/kg	< 1.38E-5 U	**1.65E-5**		**5.59E-6 J**	< 8.06E-6 U	**1.63E-5 J**	
PCB-185	mg/kg	**5.05E-4**	**2.11E-3**		**1.76E-4**	**3.42E-4**	**9.55E-4**	
PCB-186	mg/kg	< 5.29E-6 U	< 4.18E-6 U		< 4.25E-6 U	< 7.40E-6 U	< 5.46E-6 U	
PCB-188	mg/kg	**2.38E-5 J**	**2.80E-5**		**8.49E-6 J**	< 5.50E-6 U	**1.94E-5 J**	
PCB-189	mg/kg	**2.09E-4**	**5.66E-4**		**6.32E-5**	**8.36E-5**	**3.11E-4**	
PCB-190	mg/kg	**9.54E-4**	**3.02E-3**		**2.95E-4**	**4.50E-4**	**1.46E-3**	
PCB-191	mg/kg	**1.93E-4**	**6.01E-4**		**5.79E-5 J**	**8.59E-5**	**2.90E-4**	
PCB-192	mg/kg	< 5.14E-6 U	< 4.67E-6 U		< 4.85E-6 U	< 8.82E-6 U	< 7.00E-6 U	
PCB-193	mg/kg	**5.64E-4**	**1.77E-3**		**1.80E-4**	**2.92E-4**	**8.27E-4**	
PCB-194	mg/kg	**2.15E-3**	**7.49E-3**		**6.42E-4**	**1.30E-3**	**4.21E-3**	
PCB-195	mg/kg	**9.55E-4**	**3.73E-3**		**2.84E-4**	**6.11E-4**	**1.78E-3**	
PCB-196/203	mg/kg	**2.63E-3**	**8.53E-3**		**7.23E-4**	**1.58E-3**	**4.07E-3**	
PCB-197	mg/kg	**9.43E-5**	**3.24E-4**		**2.66E-5 J**	**6.09E-5 J**	**1.59E-4**	
PCB-198	mg/kg	**1.04E-4**	**2.63E-3**		**5.15E-5 J**	**7.02E-5**	**1.88E-4**	
PCB-199	mg/kg	**2.74E-3**	< 1.19E-2 U		**7.16E-4**	**1.68E-3**	**4.61E-3**	
PCB-200	mg/kg	**2.60E-4**	**1.14E-3**		**8.57E-5**	**2.13E-4**	**5.21E-4**	
PCB-201	mg/kg	**3.12E-4**	**1.12E-3**		**8.94E-5**	**2.21E-4**	**5.90E-4**	
PCB-202	mg/kg	**4.77E-4**	**1.48E-3**		**1.53E-4**	**3.28E-4**	**9.67E-4**	
PCB-204	mg/kg	< 1.00E-5 U	< 3.07E-6 U		< 4.41E-6 U	< 1.10E-5 U	< 4.28E-6 U	
PCB-205	mg/kg	**9.84E-5**	**3.33E-4**		**2.89E-5 J**	**5.21E-5 J**	**1.56E-4**	
PCB-206	mg/kg	**9.44E-4**	**1.89E-3**		**2.89E-4**	**3.74E-4**	**1.62E-3**	
PCB-207	mg/kg	**1.15E-4**	**2.44E-4**		**3.75E-5 J**	**5.25E-5 J**	**1.88E-4**	
PCB-208	mg/kg	**2.31E-4**	**3.74E-4**		**6.97E-5**	**7.50E-5**	**4.00E-4**	
PCB-209	mg/kg	**1.73E-4**	**5.76E-4**		**4.99E-5 J**	**5.26E-5 J**	**2.54E-4**	
Total Decachlorobiphenyls	mg/kg	**1.73E-4**	**5.76E-4**		**4.99E-5**	**5.26E-5**	**2.54E-4**	
Total Dichlorobiphenyls	mg/kg	**2.56E-3 J**	**3.55E-3**		**5.68E-4**	**1.03E-3**	**2.64E-3 J**	
Total Heptachlorobiphenyls	mg/kg	**4.13E-2**	**1.46E-1**		**1.33E-2**	**2.20E-2**	**6.81E-2**	
Total Hexachlorobiphenyls	mg/kg	**4.85E-2**	**1.54E-1**		**1.60E-2 J**	**1.94E-2**	**1.48E-1**	
Total Monochlorobiphenyls	mg/kg	**1.66E-4**	**7.70E-5**		**5.98E-5**	**2.37E-5 J**	**9.04E-4**	
Total Nonachlorobiphenyls	mg/kg	**1.29E-3**	**2.50E-3**		**3.96E-4**	**5.02E-4**	**2.21E-3**	
Total Octachlorobiphenyls	mg/kg	**9.82E-3**	**3.27E-2**		**2.80E-3**	**6.12E-3**	**1.73E-2**	
Total Pentachlorobiphenyls	mg/kg	**3.21E-2**	**4.74E-2**		**1.11E-2**	**9.26E-3 J**	**1.69E-1**	
Total Tetrachlorobiphenyls	mg/kg	**1.48E-2**	**1.25E-2**		**4.58E-3 J**	**3.50E-3 J**	**3.90E-2**	
Total Trichlorobiphenyls	mg/kg	**6.79E-3 J**	**4.67E-3**		**1.98E-3**	**1.48E-3 J**	**5.14E-3**	
Total PCB Congeners (ND = 0)	mg/kg	**1.58E-1 J**	**3.95E-1**		**5.07E-2 J**	**6.34E-2 J**	**4.53E-1 J**	
Total PCB TEQ (ND = 0)	mg/kg	**1.57E-5 J**	**1.33E-5**		**4.99E-6 J**	**4.14E-6 J**	**2.05E-5 J**	

Notes:

Bold = detected

mg/kg = milligrams per kilogram

U = Analyte not detected at or above the RDL shown

J = Result value estimated

UJ = Analyte not detected, and the RDL shown is an estimate

(ND = 0) = calculated using zero for nondetected components

RDL = Reported Detection Limit

TEQ = Toxic Equivalency

A = One or more of the nine common Aroclor groups (1016, 1221, 1232, 1242, 1248, 1254, 1260, 1262, and 1268) were not reported, and the Total PCB Aroclors (ND = 0) sum assumes the missing components were nondetect.

Total PCB Aroclors (ND = 0) are the sum of Aroclors available, with nondetects = 0, unless all Aroclors were not detected, in which case the Total PCB Aroclors concentration is shown as nondetect at the maximum RDL for any individual Aroclor.

Table I.6.D. Individual PCB Aroclors and Congeners in Catch Basin Solids

South Park Marina Site, Seattle, Washington

Location		CB-06			CB-07	CB-08	CB-09	
Sample Date		02/09/16	04/20/21	10/07/22	02/11/16	02/11/16	02/11/16	10/08/15
Sample		SPM-CB-06-02092016	CB-06-210420	CB-06-221007	SPM-CB-07-02112016	SPM-CB-08-02112016	SPM-CB-09-02112016	SP-CB-09
Analyte	**Unit**							
Polychlorinated Biphenyl Aroclors								
Aroclor 1016	mg/kg	< 10 U	< 0.0199 U	< 0.004 U	< 0.08 UJ	< 0.04 UJ	< 0.4 U	< 0.022 U
Aroclor 1221	mg/kg	< 10 U	< 0.0199 U	< 0.004 U	< 0.08 UJ	< 0.04 UJ	< 0.4 U	< 0.024 U
Aroclor 1232	mg/kg	< 10 U	< 0.0199 U	< 0.004 U	< 0.08 UJ	< 0.04 UJ	< 0.4 U	< 0.024 U
Aroclor 1242	mg/kg	< 10 U	< 0.0199 U	< 0.004 U	< 0.08 UJ	< 0.04 UJ	< 0.4 U	< 0.022 U
Aroclor 1248	mg/kg	< 10 U	< 0.0199 U	< 0.004 U	< 0.08 UJ	< 0.04 UJ	< 0.4 U	< 0.022 U
Aroclor 1254	mg/kg	< 10 U	**0.102 J**	**0.082**	**0.34 J**	< 0.04 UJ	**1.5**	< 0.022 U
Aroclor 1260	mg/kg	< 10 U	**0.11 J**	**0.089**	< 0.08 UJ	**0.48 J**	< 0.4 U	**0.54**
Aroclor 1262	mg/kg	< 10 U	< 0.0199 U	< 0.004 U	< 0.08 UJ	< 0.04 UJ	< 0.4 U	
Aroclor 1268	mg/kg	< 10 U	< 0.0199 U	< 0.004 U	< 0.08 UJ	< 0.04 UJ	< 0.4 U	
Total PCB Aroclors (ND = 0)	mg/kg	< 10 U	**0.212 J**	**0.171**	**0.34 J**	**0.48 J**	**1.5**	**0.54 A**
Polychlorinated Biphenyl Congeners								
PCB-001	mg/kg	**8.25E-5**			**4.33E-5 J**	**7.48E-6 J**	**6.04E-5**	< 9.79E-4 U
PCB-002	mg/kg	**5.27E-5**			**2.32E-5 J**	**9.68E-6 J**	**2.53E-5 J**	< 1.01E-3 U
PCB-003	mg/kg	**8.06E-5**			**4.43E-5 J**	**8.42E-6 J**	**4.12E-5 J**	< 8.43E-4 U
PCB-004/010	mg/kg	**2.33E-4**			**1.29E-4**	< 1.66E-5 U	**1.82E-4**	< 4.25E-3 U
PCB-005/008	mg/kg	**8.01E-4**			**3.17E-4**	**7.42E-5 J**	**4.96E-4**	< 2.02E-3 U
PCB-006	mg/kg	**1.75E-4**			**7.86E-5**	< 1.36E-5 U	**9.92E-5**	< 3.17E-3 U
PCB-007/009	mg/kg	**9.58E-5**			**3.72E-5 J**	< 1.34E-5 U	< 1.35E-5 U	< 3.42E-3 U
PCB-011	mg/kg	**1.14E-2**			**6.61E-4**	**5.29E-4**	**8.79E-4**	**5.21E-3**
PCB-012/013	mg/kg	**1.18E-4**			< 6.52E-5 U	< 1.36E-5 U	**3.86E-5 J**	< 3.27E-3 U
PCB-014	mg/kg	< 3.15E-5 U			< 2.02E-5 U	< 1.17E-5 U	< 1.21E-5 U	< 3.51E-3 U
PCB-015	mg/kg	**6.13E-4**			< 2.56E-4 U	**5.84E-5 J**	**2.86E-4**	< 2.92E-3 U
PCB-016/032	mg/kg	**1.07E-3**			**1.01E-3**	**1.67E-4**	**1.10E-3**	**2.23E-3 J**
PCB-017	mg/kg	**5.99E-4**			**5.11E-4**	**8.25E-5**	**6.22E-4**	< 9.81E-4 U
PCB-018	mg/kg	**1.59E-3**			**1.23E-3**	**2.49E-4**	**1.81E-3**	**3.29E-3**
PCB-019	mg/kg	**1.33E-4**			**1.17E-4**	**2.58E-5 J**	**1.72E-4**	< 1.19E-3 U
PCB-020/021/033	mg/kg	**1.33E-3**			**1.54E-3**	**1.83E-4 J**	**1.29E-3**	**1.86E-3 J**
PCB-022	mg/kg	**8.52E-4**			**1.14E-3**	**1.12E-4**	**6.83E-4**	**1.46E-3**
PCB-023	mg/kg	< 1.00E-5 U			**2.82E-6 J**	< 2.52E-6 U	**3.98E-6 J**	< 5.95E-4 U
PCB-024/027	mg/kg	**1.22E-4**			**9.07E-5 J**	**1.98E-5 J**	**1.25E-4**	< 7.61E-4 U
PCB-025	mg/kg	**1.60E-4**			**1.77E-4**	**2.64E-5 J**	**1.44E-4**	< 6.03E-4 U
PCB-026	mg/kg	**3.19E-4**			**4.38E-4**	**6.77E-5**	**3.67E-4**	< 6.30E-4 U
PCB-028	mg/kg	**1.84E-3**			**2.26E-3**	**2.91E-4**	**1.80E-3**	**1.81E-3**
PCB-029	mg/kg	**1.57E-5 J**			**1.15E-5 J**	< 3.44E-6 U	**1.78E-5 J**	< 7.04E-4 U
PCB-030	mg/kg	< 6.50E-6 U			< 1.80E-6 U	< 1.54E-6 U	< 3.01E-6 U	< 7.26E-4 U
PCB-031	mg/kg	**1.91E-3**			**2.79E-3**	**2.98E-4**	**2.00E-3**	**2.36E-3**
PCB-034	mg/kg	< 9.34E-6 U			< 1.19E-5 U	< 2.35E-6 U	**6.93E-6 J**	< 6.69E-4 U
PCB-035	mg/kg	**7.73E-4**			**1.03E-4**	**7.25E-5**	**2.06E-4**	< 8.60E-4 U
PCB-036	mg/kg	**1.90E-4**			**9.83E-6 J**	**1.02E-5 J**	**2.74E-5 J**	< 9.26E-4 U
PCB-037	mg/kg	**1.02E-3**			**1.15E-3**	**1.72E-4**	**8.24E-4**	**1.94E-3**
PCB-038	mg/kg	**2.48E-5 J**			**5.59E-5 J**	**6.01E-6 J**	**3.55E-5 J**	< 8.83E-4 U
PCB-039	mg/kg	< 8.60E-6 U			**4.12E-6 J**	< 2.78E-6 U	**4.99E-6 J**	< 9.50E-4 U
PCB-040	mg/kg	**8.51E-4**			**1.20E-3**	**1.40E-4**	**1.00E-3**	< 1.68E-3 U
PCB-041/064/071/072	mg/kg	**4.54E-3**			**5.27E-3**	**6.94E-4**	**6.03E-3**	**5.28E-3**
PCB-042/059	mg/kg	**1.04E-3**			**1.69E-3**	**1.89E-4**	**1.25E-3**	< 1.03E-3 U
PCB-043/049	mg/kg	**3.77E-3**			**3.22E-3**	**6.05E-4**	**6.88E-3**	**4.88E-3**
PCB-044	mg/kg	**7.63E-3**			**6.69E-3**	**1.16E-3**	**1.44E-2**	< 5.48E-3 U
PCB-045	mg/kg	**3.75E-4**			**5.26E-4**	**8.47E-5**	**4.44E-4**	< 1.63E-3 U
PCB-046	mg/kg	**1.78E-4**			**2.84E-4**	**4.53E-5 J**	**2.12E-4**	< 1.67E-3 U
PCB-047	mg/kg	**7.98E-4**			**1.05E-3**	**1.43E-4**	**1.05E-3**	< 1.11E-3 U
PCB-048/075	mg/kg	**5.69E-4**			**9.19E-4**	**1.12E-4 J**	**6.28E-4**	< 9.59E-4 U
PCB-050	mg/kg	< 8.77E-6 U			**7.20E-6 J**	**1.52E-6 J**	**5.06E-6 J**	< 1.27E-3 U
PCB-051	mg/kg	**1.26E-4**			**1.62E-4**	**2.29E-5 J**	**1.15E-4**	< 1.42E-3 U
PCB-052/069	mg/kg	**1.12E-2**			**6.61E-3**	**1.73E-3**	**2.35E-2**	**9.73E-3**
PCB-053	mg/kg	**3.98E-4**			**5.20E-4**	**8.91E-5**	**7.29E-4**	< 1.32E-3 U
PCB-054	mg/kg	**6.24E-6 J**			**7.83E-6 J**	**1.99E-6 J**	**6.25E-6 J**	< 1.01E-3 U
PCB-055	mg/kg	**2.86E-4**			**1.17E-4**	**2.99E-5 J**	**2.35E-4**	< 8.55E-4 U
PCB-056/060	mg/kg	**7.13E-3**			**6.14E-3**	**8.38E-4**	**4.70E-3**	**3.71E-3**
PCB-057	mg/kg	**2.67E-5**			**2.54E-5 J**	**3.89E-6 J**	**2.36E-5 J**	< 1.08E-3 U
PCB-058	mg/kg	**7.91E-6 J**			**1.45E-5 J**	**2.29E-6 J**	**1.04E-5 J**	< 1.14E-3 U
PCB-061/070	mg/kg	**1.82E-2**			**9.87E-3**	**2.19E-3**	**2.25E-2**	**1.08E-2**
PCB-062	mg/kg	< 1.89E-5 U			< 6.17E-6 U	< 2.19E-6 U	< 5.69E-6 U	< 9.64E-4 U
PCB-063	mg/kg	**2.28E-4**			**2.56E-4**	**3.51E-5 J**	**2.52E-4**	< 1.11E-3 U
PCB-065	mg/kg	< 1.94E-5 U			< 6.36E-6 U	< 2.26E-6 U	< 5.87E-6 U	< 9.61E-4 U
PCB-066/076	mg/kg	**6.97E-3**			**6.76E-3**	**1.10E-3**	**8.60E-3**	**4.88E-3**
PCB-067	mg/kg	**1.75E-4**			**1.55E-4**	**2.67E-5 J**	**1.23E-4**	< 9.57E-4 U
PCB-068	mg/kg	**3.06E-5**			**1.60E-5 J**	**8.50E-6 J**	**1.70E-5 J**	< 8.74E-4 U
PCB-073	mg/kg	< 1.83E-5 U			< 5.31E-6 U	< 2.36E-6 U	< 5.91E-6 U	< 1.04E-3 U
PCB-074	mg/kg	**4.02E-3**			**3.33E-3**	**5.44E-4**	**4.60E-3**	**2.47E-3**
PCB-077	mg/kg	**2.45E-3**			**1.15E-3**	**2.56E-4**	**1.10E-3**	**2.22E-3**
PCB-078	mg/kg	< 2.00E-5 U			< 4.95E-6 U	**2.39E-6 J**	< 5.59E-6 U	< 9.54E-4 U
PCB-079	mg/kg	**6.32E-4**			**1.50E-4**	**5.30E-5 J**	**4.26E-4**	< 8.25E-4 U
PCB-080	mg/kg	< 1.89E-5 U			< 4.10E-6 U	< 1.82E-6 U	< 5.13E-6 U	< 7.47E-4 U
PCB-081	mg/kg	**3.63E-4**			**2.87E-4**	**2.03E-5 J**	**1.26E-4**	< 9.11E-4 U

Table I.6.D. Individual PCB Aroclors and Congeners in Catch Basin Solids

South Park Marina Site, Seattle, Washington

Location		CB-06			CB-07	CB-08	CB-09	
Sample Date		02/09/16	04/20/21	10/07/22	02/11/16	02/11/16	02/11/16	10/08/15
Sample		SPM-CB-06-02092016	CB-06-210420	CB-06-221007	SPM-CB-07-02112016	SPM-CB-08-02112016	SPM-CB-09-02112016	SP-CB-09
Analyte	Unit							
PCB-082	mg/kg	**8.42E-3**			**2.30E-3**	**8.90E-4**	**6.81E-3**	**4.43E-3**
PCB-083	mg/kg	< 1.77E-5 U			**6.73E-6 J**	< 4.63E-6 U	< 4.12E-6 U	< 1.46E-3 U
PCB-084/092	mg/kg	**2.01E-2**			**5.75E-3**	**2.33E-3**	**2.24E-2**	**1.14E-2**
PCB-085/116	mg/kg	**9.36E-3**			**2.29E-3**	**8.82E-4**	**7.71E-3**	**3.33E-3**
PCB-086	mg/kg	< 2.85E-5 U			**9.29E-5**	< 7.45E-6 U	< 6.62E-6 U	< 2.63E-3 U
PCB-087/117/125	mg/kg	**2.55E-2**			**5.40E-3**	**2.44E-3**	**2.08E-2**	**9.69E-3**
PCB-088/091	mg/kg	**5.39E-3**			**1.72E-3**	**6.90E-4**	**6.69E-3**	**3.23E-3**
PCB-089	mg/kg	**3.47E-4**			**1.65E-4**	**5.17E-5 J**	**3.47E-4**	< 1.95E-3 U
PCB-090/101	mg/kg	**5.55E-2**			**1.33E-2**	**6.09E-3**	**5.30E-2**	**3.14E-2**
PCB-093	mg/kg	< 2.24E-5 U			< 8.38E-6 U	< 7.92E-6 U	< 6.53E-6 U	< 2.46E-3 U
PCB-094	mg/kg	**1.19E-4**			**5.77E-5 J**	**1.73E-5 J**	**1.70E-4**	< 1.96E-3 U
PCB-095/098/102	mg/kg	**3.12E-2**			**9.06E-3**	**4.16E-3**	**3.95E-2**	**1.64E-2**
PCB-096	mg/kg	**1.60E-4**			**9.61E-5**	**2.31E-5 J**	**2.75E-4**	< 1.48E-3 U
PCB-097	mg/kg	**1.79E-2**			**4.16E-3**	**1.69E-3**	**1.53E-2**	**7.02E-3**
PCB-099	mg/kg	**2.00E-2**			**5.14E-3**	**1.98E-3**	**1.97E-2**	**7.91E-3**
PCB-100	mg/kg	**6.02E-5**			**2.55E-5 J**	< 5.96E-6 U	**7.59E-5**	< 1.80E-3 U
PCB-103	mg/kg	**1.33E-4**			**6.55E-5**	**1.99E-5 J**	**1.97E-4**	< 1.77E-3 U
PCB-104	mg/kg	< 1.25E-5 U			< 4.77E-6 U	< 4.55E-6 U	< 4.07E-6 U	< 1.43E-3 U
PCB-105	mg/kg	**2.71E-2**			**4.91E-3**	**2.14E-3**	**1.31E-2**	**1.24E-2**
PCB-106/118	mg/kg	**7.20E-2**			**1.39E-2**	**5.93E-3**	**4.04E-2**	**2.78E-2**
PCB-107/109	mg/kg	**4.28E-3**			**9.22E-4**	**4.00E-4**	**2.53E-3**	**2.09E-3 J**
PCB-108/112	mg/kg	**2.32E-3**			**6.40E-4**	**2.26E-4**	**2.15E-3**	< 1.73E-3 U
PCB-110	mg/kg	**7.55E-2**			**1.60E-2**	**6.95E-3**	**5.31E-2**	**3.17E-2**
PCB-111/115	mg/kg	**1.06E-3**			**2.64E-4**	**9.08E-5 J**	**7.67E-4**	< 1.36E-3 U
PCB-113	mg/kg	< 1.74E-5 U			< 6.23E-6 U	**1.14E-5 J**	< 4.95E-6 U	< 1.57E-3 U
PCB-114	mg/kg	**1.37E-3**			**3.00E-4**	**1.23E-4**	**8.26E-4**	< 1.19E-3 U
PCB-119	mg/kg	**6.74E-4**			**1.95E-4**	**6.56E-5**	**5.84E-4**	< 1.45E-3 U
PCB-120	mg/kg	**8.21E-5**			**1.49E-5 J**	**1.15E-5 J**	**3.34E-5 J**	< 1.32E-3 U
PCB-121	mg/kg	< 1.35E-5 U			< 5.05E-6 U	< 4.78E-6 U	< 3.94E-6 U	< 1.28E-3 U
PCB-122	mg/kg	**6.96E-4**			**1.75E-4**	**5.97E-5 J**	**3.92E-4**	< 1.39E-3 U
PCB-123	mg/kg	**8.98E-4**			**2.47E-4**	**9.11E-5**	**6.14E-4**	< 1.67E-3 U
PCB-124	mg/kg	**3.41E-3**			**6.29E-4**	**3.11E-4**	**2.03E-3**	**1.70E-3**
PCB-126	mg/kg	**8.77E-4**			**1.86E-4**	**7.04E-5**	**2.66E-4**	< 1.49E-3 U
PCB-127	mg/kg	< 3.86E-5 U			< 9.25E-6 U	< 1.08E-5 U	< 1.37E-5 U	< 1.06E-3 U
PCB-128/162	mg/kg	**1.65E-2**			**3.02E-3**	**1.56E-3**	**7.62E-3**	**7.89E-3**
PCB-129	mg/kg	**4.85E-3**			**9.43E-4**	**4.68E-4**	**2.51E-3**	< 3.95E-3 U
PCB-130	mg/kg	**5.66E-3**			**1.55E-3**	**7.52E-4**	**3.03E-3**	**5.28E-3**
PCB-131	mg/kg	< 1.08E-4 U			< 1.16E-5 U	< 1.79E-5 U	< 9.54E-6 U	< 7.81E-4 U
PCB-132/161	mg/kg	**2.28E-2**			**5.25E-3**	**2.91E-3**	**1.40E-2**	**1.80E-2**
PCB-133/142	mg/kg	**2.11E-3**			**4.96E-4**	**2.63E-4**	**1.40E-3**	**2.60E-3**
PCB-134/143	mg/kg	**3.90E-3**			**9.13E-4**	**4.99E-4**	**2.79E-3**	**3.36E-3**
PCB-135	mg/kg	**8.83E-3**			**2.02E-3**	**1.21E-3**	**5.69E-3**	**9.69E-3**
PCB-136	mg/kg	**7.07E-3**			**1.77E-3**	**1.14E-3**	**5.61E-3**	**6.70E-3**
PCB-137	mg/kg	**4.65E-3**			**7.89E-4**	**3.85E-4**	**2.59E-3**	**2.81E-3**
PCB-138/163/164	mg/kg	**9.57E-2**			**1.84E-2**	**1.03E-2**	**4.14E-2**	**7.24E-2**
PCB-139/149	mg/kg	**5.48E-2**			**1.24E-2**	**7.89E-3**	**3.04E-2**	**6.32E-2**
PCB-140	mg/kg	**3.21E-4**			< 7.96E-5 U	**4.60E-5 J**	**1.76E-4**	< 1.72E-3 U
PCB-141	mg/kg	**1.80E-2**			**3.83E-3**	**2.35E-3**	**8.42E-3**	**1.92E-2**
PCB-144	mg/kg	**2.80E-3**			**8.06E-4**	**4.90E-4**	**1.94E-3**	**4.72E-3**
PCB-145	mg/kg	< 3.65E-5 U			**4.38E-6 J**	< 2.75E-6 U	**2.15E-5 J**	< 1.03E-3 U
PCB-146/165	mg/kg	**1.08E-2**			**2.41E-3**	**1.38E-3**	**5.44E-3**	**1.07E-2**
PCB-147	mg/kg	**1.25E-3**			**2.74E-4**	**1.34E-4**	**9.38E-4**	< 1.51E-3 U
PCB-148	mg/kg	< 4.88E-5 U			< 5.19E-6 U	< 3.67E-6 U	< 3.97E-6 U	< 1.67E-3 U
PCB-150	mg/kg	**8.44E-5**			**2.33E-5 J**	**1.09E-5 J**	**5.40E-5 J**	< 1.24E-3 U
PCB-151	mg/kg	**1.35E-2**			**3.16E-3**	**2.21E-3**	**8.26E-3**	**1.77E-2**
PCB-152	mg/kg	**4.26E-5**			**1.13E-5 J**	**6.51E-6 J**	**5.11E-5 J**	< 1.11E-3 U
PCB-153	mg/kg	**6.76E-2**			**1.46E-2**	**8.87E-3**	**3.33E-2**	**6.54E-2**
PCB-154	mg/kg	**6.30E-4**			**1.62E-4**	**7.31E-5**	**3.64E-4**	< 1.45E-3 U
PCB-155	mg/kg	< 3.33E-5 U			< 3.54E-6 U	< 2.51E-6 U	< 2.71E-6 U	< 1.11E-3 U
PCB-156	mg/kg	**1.09E-2**			**1.83E-3**	**9.58E-4**	**4.31E-3**	**6.10E-3**
PCB-157	mg/kg	**2.54E-3**			**4.24E-4**	**2.15E-4**	**1.04E-3**	**1.50E-3**
PCB-158/160	mg/kg	**1.12E-2**			**2.07E-3**	**1.16E-3**	**5.10E-3**	**8.03E-3**
PCB-159	mg/kg	< 8.97E-5 U			**1.65E-4**	**1.21E-4**	**3.71E-4**	< 5.04E-4 U
PCB-166	mg/kg	**3.79E-4**			**6.86E-5**	**3.16E-5 J**	**1.87E-4**	< 4.73E-4 U
PCB-167	mg/kg	**4.90E-3**			**8.42E-4**	**4.43E-4**	**1.83E-3**	< 2.98E-3 U
PCB-168	mg/kg	**5.85E-5**			**1.05E-5 J**	**6.89E-6 J**	**4.54E-5 J**	< 4.90E-4 U
PCB-169	mg/kg	**6.25E-5**			**1.13E-5 J**	**6.45E-6 J**	**1.08E-5 J**	< 5.83E-4 U
PCB-170	mg/kg	**2.65E-2**			**5.01E-3**	**3.40E-3**	**9.11E-3**	**2.78E-2**
PCB-171	mg/kg	**9.04E-3**			**1.28E-3**	**8.88E-4**	**2.71E-3**	**6.07E-3**
PCB-172	mg/kg	**6.26E-3**			**9.16E-4**	**6.69E-4**	**1.83E-3**	**5.56E-3**
PCB-173	mg/kg	**8.42E-4**			**1.18E-4**	**9.03E-5**	**2.52E-4**	< 1.05E-3 U
PCB-174	mg/kg	**3.74E-2**			**5.29E-3**	**4.12E-3**	**1.23E-2**	**3.43E-2**
PCB-175	mg/kg	**7.29E-4**			**2.51E-4**	**1.76E-4**	**4.65E-4**	**1.37E-3**
PCB-176	mg/kg	**3.07E-3**			**5.69E-4**	**4.40E-4**	**1.32E-3**	**3.41E-3**
PCB-177	mg/kg	**2.08E-2**			**3.04E-3**	**2.23E-3**	**6.47E-3**	**1.97E-2**

Table I.6.D. Individual PCB Aroclors and Congeners in Catch Basin Solids

South Park Marina Site, Seattle, Washington

Location		CB-06			CB-07	CB-08	CB-09	
Sample Date		02/09/16	04/20/21	10/07/22	02/11/16	02/11/16	02/11/16	10/08/15
Sample		SPM-CB-06-02092016	CB-06-210420	CB-06-221007	SPM-CB-07-02112016	SPM-CB-08-02112016	SPM-CB-09-02112016	SP-CB-09
Analyte	Unit							
PCB-178	mg/kg	**5.25E-3**			**9.92E-4**	**7.69E-4**	**2.03E-3**	**7.35E-3**
PCB-179	mg/kg	**1.02E-2**			**1.88E-3**	**1.49E-3**	**4.70E-3**	**1.28E-2**
PCB-180	mg/kg	**8.20E-2**			**1.14E-2**	**8.89E-3**	**2.60E-2**	**8.36E-2**
PCB-181	mg/kg	< 4.64E-5 U			< 6.49E-6 U	< 4.42E-6 U	< 1.15E-5 U	< 8.40E-4 U
PCB-182/187	mg/kg	**3.32E-2**			**6.12E-3**	**4.76E-3**	**1.31E-2**	**3.52E-2**
PCB-183	mg/kg	**1.39E-2**			**2.74E-3**	**2.09E-3**	**5.64E-3**	**1.62E-2**
PCB-184	mg/kg	**5.20E-5**			**8.21E-6 J**	< 4.26E-6 U	**1.23E-5 J**	< 3.98E-4 U
PCB-185	mg/kg	**3.97E-3**			**5.18E-4**	**4.33E-4**	**1.40E-3**	**2.83E-3**
PCB-186	mg/kg	< 2.35E-5 U			< 5.19E-6 U	< 3.66E-6 U	< 7.32E-6 U	< 4.47E-4 U
PCB-188	mg/kg	**7.42E-5**			**1.22E-5 J**	< 5.07E-6 U	**1.81E-5 J**	< 4.11E-4 U
PCB-189	mg/kg	**1.06E-3**			**1.86E-4**	**1.22E-4**	**3.15E-4**	**1.30E-3**
PCB-190	mg/kg	**4.83E-3**			**9.29E-4**	**6.64E-4**	**1.78E-3**	**5.73E-3**
PCB-191	mg/kg	**1.32E-3**			**1.92E-4**	**1.35E-4**	**3.93E-4**	< 1.73E-3 U
PCB-192	mg/kg	< 3.60E-5 U			< 5.04E-6 U	< 3.44E-6 U	< 8.93E-6 U	< 6.67E-4 U
PCB-193	mg/kg	**3.57E-3**			**5.24E-4**	**4.10E-4**	**1.09E-3**	**4.21E-3**
PCB-194	mg/kg	**1.42E-2**			**1.91E-3**	**1.88E-3**	**5.88E-3**	**1.62E-2**
PCB-195	mg/kg	**5.89E-3**			**9.17E-4**	**7.70E-4**	**3.08E-3**	**6.39E-3**
PCB-196/203	mg/kg	**1.48E-2**			**2.52E-3**	**2.56E-3**	**7.60E-3**	**1.77E-2**
PCB-197	mg/kg	**6.45E-4**			**8.21E-5**	**6.89E-5**	**2.85E-4**	< 8.23E-4 U
PCB-198	mg/kg	**1.01E-3**			**1.14E-4**	**1.18E-4**	**8.08E-3**	< 1.17E-3 U
PCB-199	mg/kg	**1.71E-2**			**2.44E-3**	**2.63E-3**	< 7.02E-6 U	**1.63E-2**
PCB-200	mg/kg	**1.94E-3**			**2.68E-4**	**2.81E-4**	**1.07E-3**	**2.26E-3**
PCB-201	mg/kg	**2.58E-3**			**2.89E-4**	**2.68E-4**	**1.12E-3**	**1.58E-3**
PCB-202	mg/kg	**3.83E-3**			**4.13E-4**	**3.78E-4**	**1.58E-3**	**2.85E-3**
PCB-204	mg/kg	< 2.30E-5 U			< 4.39E-6 U	< 3.15E-6 U	< 4.84E-6 U	< 7.73E-4 U
PCB-205	mg/kg	**5.71E-4**			**7.87E-5**	**7.60E-5**	**2.58E-4**	< 1.67E-3 U
PCB-206	mg/kg	**3.62E-3**			**5.52E-4**	**5.67E-4**	**2.31E-3**	**5.46E-3**
PCB-207	mg/kg	**4.67E-4**			**7.27E-5**	**7.30E-5**	**3.10E-4**	< 8.77E-4 U
PCB-208	mg/kg	**8.43E-4**			**1.20E-4**	**1.05E-4**	**4.92E-4**	< 8.51E-4 U
PCB-209	mg/kg	**6.76E-4**			**2.06E-4**	**1.11E-4**	**5.57E-4**	< 1.92E-3 U
Total Decachlorobiphenyls	mg/kg	**6.76E-4**			**2.06E-4**	**1.11E-4**	**5.57E-4**	
Total Dichlorobiphenyls	mg/kg	**1.35E-2**			**1.22E-3 J**	**6.62E-4**	**1.98E-3**	
Total Heptachlorobiphenyls	mg/kg	**2.64E-1**			**4.20E-2**	**3.18E-2**	**9.10E-2**	
Total Hexachlorobiphenyls	mg/kg	**3.72E-1**			**7.83E-2 J**	**4.59E-2**	**1.89E-1**	
Total Monochlorobiphenyls	mg/kg	**2.16E-4**			**1.11E-4**	**2.56E-5**	**1.27E-4**	
Total Nonachlorobiphenyls	mg/kg	**4.93E-3**			**7.44E-4**	**7.45E-4**	**3.12E-3**	
Total Octachlorobiphenyls	mg/kg	**6.26E-2**			**9.02E-3**	**9.03E-3**	**2.90E-2**	
Total Pentachlorobiphenyls	mg/kg	**3.84E-1**			**8.80E-2**	**3.78E-2**	**3.10E-1**	
Total Tetrachlorobiphenyls	mg/kg	**7.21E-2**			**5.64E-2**	**1.01E-2**	**9.90E-2**	
Total Trichlorobiphenyls	mg/kg	**1.19E-2**			**1.26E-2**	**1.78E-3 J**	**1.12E-2**	
Total PCB Congeners (ND = 0)	mg/kg	**1.19E+0 J**			**2.89E-1 J**	**1.38E-1 J**	**7.35E-1 J**	**8.96E-1 J**
Total PCB TEQ (ND = 0)	mg/kg	**9.14E-5**			**1.94E-5 J**	**7.39E-6 J**	**2.77E-5 J**	**8.61E-7**

Notes:

Bold = detected

mg/kg = milligrams per kilogram

U = Analyte not detected at or above the RDL shown

J = Result value estimated

UJ = Analyte not detected, and the RDL shown is an estimate

(ND = 0) = calculated using zero for nondetected components

RDL = Reported Detection Limit

TEQ = Toxic Equivalency

A = One or more of the nine common Aroclor groups (1016, 1221, 1232, 1242, 1248, 1254, 1260, 1262, and 1268) were not reported, and the Total PCB Aroclors (ND = 0) sum assumes the missing components were nondetect.

Total PCB Aroclors (ND = 0) are the sum of Aroclors available, with nondetects = 0, unless all Aroclors were not detected, in which case the Total PCB Aroclors concentration is shown as nondetect at the maximum RDL for any individual Aroclor.

Table I.6.D. Individual PCB Aroclors and Congeners in Catch Basin Solids

South Park Marina Site, Seattle, Washington

Location		SWRX-PRE		
Sample Date		10/07/22	04/20/21	10/08/14
Sample		CB-PRERX-221007	PRERX-210420	SP-OWS-01 (SOLID)
Analyte	**Unit**			
Polychlorinated Biphenyl Aroclors				
Aroclor 1016	mg/kg	< 0.004 U	< 0.0198 U	**0.21 J**
Aroclor 1221	mg/kg	< 0.004 U	< 0.0198 U	< 0.031 U
Aroclor 1232	mg/kg	< 0.004 U	< 0.0198 U	< 0.031 U
Aroclor 1242	mg/kg	< 0.004 U	< 0.0198 U	< 0.028 U
Aroclor 1248	mg/kg	< 0.004 U	< 0.0198 U	< 0.028 U
Aroclor 1254	mg/kg	**0.089**	**0.137**	**2.2**
Aroclor 1260	mg/kg	**0.15**	**0.19**	**1.7 J**
Aroclor 1262	mg/kg	< 0.004 U	< 0.0198 U	
Aroclor 1268	mg/kg	< 0.004 U	< 0.0198 U	
Total PCB Aroclors (ND = 0)	mg/kg	**0.239**	**0.327**	**4.11 JA**
Polychlorinated Biphenyl Congeners				
PCB-001	mg/kg			< 1.05E-3 U
PCB-002	mg/kg			< 9.86E-4 U
PCB-003	mg/kg			< 8.19E-4 U
PCB-004/010	mg/kg			< 3.45E-3 U
PCB-005/008	mg/kg			**5.38E-3**
PCB-006	mg/kg			< 2.69E-3 U
PCB-007/009	mg/kg			< 2.90E-3 U
PCB-011	mg/kg			< 5.59E-3 U
PCB-012/013	mg/kg			< 3.02E-3 U
PCB-014	mg/kg			< 3.25E-3 U
PCB-015	mg/kg			**4.24E-3**
PCB-016/032	mg/kg			**1.26E-2**
PCB-017	mg/kg			**5.97E-3**
PCB-018	mg/kg			**2.10E-2**
PCB-019	mg/kg			**1.76E-3**
PCB-020/021/033	mg/kg			**1.51E-2**
PCB-022	mg/kg			**9.70E-3**
PCB-023	mg/kg			< 7.15E-4 U
PCB-024/027	mg/kg			**1.44E-3 J**
PCB-025	mg/kg			**1.21E-3**
PCB-026	mg/kg			**3.89E-3**
PCB-028	mg/kg			**1.56E-2**
PCB-029	mg/kg			< 8.47E-4 U
PCB-030	mg/kg			< 4.60E-4 U
PCB-031	mg/kg			**2.26E-2**
PCB-034	mg/kg			< 8.05E-4 U
PCB-035	mg/kg			**1.40E-3**
PCB-036	mg/kg			< 8.68E-4 U
PCB-037	mg/kg			**1.12E-2**
PCB-038	mg/kg			< 8.26E-4 U
PCB-039	mg/kg			< 8.89E-4 U
PCB-040	mg/kg			**1.14E-2**
PCB-041/064/071/072	mg/kg			**5.01E-2**
PCB-042/059	mg/kg			**1.48E-2**
PCB-043/049	mg/kg			**4.26E-2**
PCB-044	mg/kg			**6.64E-2**
PCB-045	mg/kg			**6.42E-3**
PCB-046	mg/kg			**3.33E-3**
PCB-047	mg/kg			**1.06E-2**
PCB-048/075	mg/kg			**9.58E-3**
PCB-050	mg/kg			< 3.61E-4 U
PCB-051	mg/kg			**2.07E-3**
PCB-052/069	mg/kg			**8.14E-2**
PCB-053	mg/kg			**5.89E-3**
PCB-054	mg/kg			< 2.89E-4 U
PCB-055	mg/kg			**1.86E-3**
PCB-056/060	mg/kg			**5.41E-2**
PCB-057	mg/kg			< 1.04E-3 U
PCB-058	mg/kg			< 1.10E-3 U
PCB-061/070	mg/kg			**1.24E-1**
PCB-062	mg/kg			< 9.78E-4 U
PCB-063	mg/kg			**2.92E-3**
PCB-065	mg/kg			< 9.75E-4 U
PCB-066/076	mg/kg			**7.12E-2**
PCB-067	mg/kg			**1.35E-3**
PCB-068	mg/kg			< 8.87E-4 U
PCB-073	mg/kg			< 9.63E-4 U
PCB-074	mg/kg			**3.04E-2**
PCB-077	mg/kg			**1.17E-2**
PCB-078	mg/kg			< 8.47E-4 U
PCB-079	mg/kg			**2.33E-3**
PCB-080	mg/kg			< 8.41E-4 U
PCB-081	mg/kg			< 7.02E-4 U

Table I.6.D. Individual PCB Aroclors and Congeners in Catch Basin Solids

South Park Marina Site, Seattle, Washington

Location		SWRX-PRE		
Sample Date		10/07/22	04/20/21	10/08/14
Sample		CB-PRERX-221007	PRERX-210420	SP-OWS-01 (SOLID)
Analyte	Unit			
PCB-082	mg/kg			**2.69E-2**
PCB-083	mg/kg			< 5.02E-4 U
PCB-084/092	mg/kg			**8.13E-2**
PCB-085/116	mg/kg			**3.09E-2**
PCB-086	mg/kg			**1.33E-3**
PCB-087/117/125	mg/kg			**7.17E-2**
PCB-088/091	mg/kg			**2.61E-2**
PCB-089	mg/kg			**2.19E-3**
PCB-090/101	mg/kg			**2.01E-1**
PCB-093	mg/kg			< 1.12E-3 U
PCB-094	mg/kg			< 1.06E-3 U
PCB-095/098/102	mg/kg			**1.56E-1**
PCB-096	mg/kg			**1.28E-3**
PCB-097	mg/kg			**5.68E-2**
PCB-099	mg/kg			**6.36E-2**
PCB-100	mg/kg			< 6.57E-4 U
PCB-103	mg/kg			**1.03E-3 J**
PCB-104	mg/kg			< 5.19E-4 U
PCB-105	mg/kg			**8.55E-2**
PCB-106/118	mg/kg			**1.69E-1**
PCB-107/109	mg/kg			**1.23E-2**
PCB-108/112	mg/kg			**8.84E-3**
PCB-110	mg/kg			**2.11E-1**
PCB-111/115	mg/kg			**3.91E-3**
PCB-113	mg/kg			< 5.48E-4 U
PCB-114	mg/kg			**4.70E-3**
PCB-119	mg/kg			**3.23E-3**
PCB-120	mg/kg			< 5.38E-4 U
PCB-121	mg/kg			< 5.87E-4 U
PCB-122	mg/kg			< 2.45E-3 U
PCB-123	mg/kg			**3.24E-3**
PCB-124	mg/kg			**7.93E-3**
PCB-126	mg/kg			**2.19E-3**
PCB-127	mg/kg			< 1.14E-3 U
PCB-128/162	mg/kg			**3.68E-2**
PCB-129	mg/kg			**1.36E-2**
PCB-130	mg/kg			**1.65E-2**
PCB-131	mg/kg			< 9.85E-4 U
PCB-132/161	mg/kg			**5.95E-2**
PCB-133/142	mg/kg			**7.38E-3**
PCB-134/143	mg/kg			**1.28E-2**
PCB-135	mg/kg			**2.83E-2**
PCB-136	mg/kg			**2.77E-2**
PCB-137	mg/kg			**1.25E-2**
PCB-138/163/164	mg/kg			**2.64E-1**
PCB-139/149	mg/kg			**2.08E-1**
PCB-140	mg/kg			**1.71E-3**
PCB-141	mg/kg			**5.74E-2**
PCB-144	mg/kg			< 1.19E-2 U
PCB-145	mg/kg			< 1.60E-4 U
PCB-146/165	mg/kg			**2.78E-2**
PCB-147	mg/kg			**3.92E-3**
PCB-148	mg/kg			< 9.35E-4 U
PCB-150	mg/kg			< 6.97E-4 U
PCB-151	mg/kg			**5.60E-2**
PCB-152	mg/kg			< 3.16E-4 U
PCB-153	mg/kg			**2.06E-1**
PCB-154	mg/kg			**1.99E-3**
PCB-155	mg/kg			< 6.25E-4 U
PCB-156	mg/kg			**2.47E-2**
PCB-157	mg/kg			**5.33E-3**
PCB-158/160	mg/kg			**3.20E-2**
PCB-159	mg/kg			< 8.12E-4 U
PCB-166	mg/kg			< 7.57E-4 U
PCB-167	mg/kg			**8.96E-3**
PCB-168	mg/kg			< 6.18E-4 U
PCB-169	mg/kg			< 9.27E-4 U
PCB-170	mg/kg			**7.36E-2**
PCB-171	mg/kg			**1.83E-2**
PCB-172	mg/kg			**1.07E-2**
PCB-173	mg/kg			**2.18E-3**
PCB-174	mg/kg			**8.87E-2**
PCB-175	mg/kg			**3.40E-3**
PCB-176	mg/kg			**9.94E-3**
PCB-177	mg/kg			**4.79E-2**

Table I.6.D. Individual PCB Aroclors and Congeners in Catch Basin Solids

South Park Marina Site, Seattle, Washington

Location		SWRX-PRE		
Sample Date		10/07/22	04/20/21	10/08/14
Sample		CB-PRERX-221007	PRERX-210420	SP-OWS-01 (SOLID)
Analyte	Unit			
PCB-178	mg/kg			**1.66E-2**
PCB-179	mg/kg			**3.79E-2**
PCB-180	mg/kg			**2.03E-1**
PCB-181	mg/kg			< 6.24E-4 U
PCB-182/187	mg/kg			**8.79E-2**
PCB-183	mg/kg			**4.09E-2**
PCB-184	mg/kg			< 3.83E-4 U
PCB-185	mg/kg			**7.86E-3**
PCB-186	mg/kg			< 4.30E-4 U
PCB-188	mg/kg			< 3.95E-4 U
PCB-189	mg/kg			< 2.58E-3 U
PCB-190	mg/kg			**1.52E-2**
PCB-191	mg/kg			< 2.89E-3 U
PCB-192	mg/kg			< 4.94E-4 U
PCB-193	mg/kg			**9.47E-3**
PCB-194	mg/kg			**4.60E-2**
PCB-195	mg/kg			**1.77E-2**
PCB-196/203	mg/kg			**5.42E-2**
PCB-197	mg/kg			**1.82E-3**
PCB-198	mg/kg			**1.72E-3**
PCB-199	mg/kg			**4.97E-2**
PCB-200	mg/kg			**5.95E-3**
PCB-201	mg/kg			**6.12E-3**
PCB-202	mg/kg			**8.46E-3**
PCB-204	mg/kg			< 7.12E-4 U
PCB-205	mg/kg			**1.71E-3**
PCB-206	mg/kg			**1.16E-2**
PCB-207	mg/kg			< 1.46E-3 U
PCB-208	mg/kg			< 2.47E-3 U
PCB-209	mg/kg			**3.35E-3**
Total Decachlorobiphenyls	mg/kg			
Total Dichlorobiphenyls	mg/kg			
Total Heptachlorobiphenyls	mg/kg			
Total Hexachlorobiphenyls	mg/kg			
Total Monochlorobiphenyls	mg/kg			
Total Nonachlorobiphenyls	mg/kg			
Total Octachlorobiphenyls	mg/kg			
Total Pentachlorobiphenyls	mg/kg			
Total Tetrachlorobiphenyls	mg/kg			
Total Trichlorobiphenyls	mg/kg			
Total PCB Congeners (ND = 0)	mg/kg			**3.96E+0 J**
Total PCB TEQ (ND = 0)	mg/kg			**2.24E-4**

Notes:

Bold = detected

mg/kg = milligrams per kilogram

U = Analyte not detected at or above the RDL shown

J = Result value estimated

UJ = Analyte not detected, and the RDL shown is an estimate

(ND = 0) = calculated using zero for nondetected components

RDL = Reported Detection Limit

TEQ = Toxic Equivalency

A = One or more of the nine common Aroclor groups (1016, 1221, 1232, 1242, 1248, 1254, 1260, 1262, and 1268) were not reported, and the Total PCB Aroclors (ND = 0) sum assumes the missing components were nondetect.

Total PCB Aroclors (ND = 0) are the sum of Aroclors available, with nondetects = 0, unless all Aroclors were not detected, in which case the Total PCB Aroclors concentration is shown as nondetect at the maximum RDL for any individual Aroclor.

Table I.6.E Individual PCB Aroclors and Congeners in Storwmater

South Park Marina Site, Seattle, Washington

Location		CB-01	CB-02					CB-05
Sample Date		09/19/17	03/05/21	05/27/21	06/08/17	09/19/17	11/22/22	09/19/17
Sample		SPM-CB-01-SW-20170919	CB-02-SW-210305	CB-02-SW-210527	SPM-CB-02-SW-20170608	SPM-CB-02-SW-20170919	CB-02-SW-221122	SPM-CB-05-SW-20170919
Analyte	**Unit**							
Polychlorinated Biphenyl Aroclors								
Aroclor 1016	ug/L	< 0.047 U	< 0.01 U	< 0.01 U	< 0.047 U	< 0.048 U	< 0.05 U	< 0.047 U
Aroclor 1221	ug/L	< 0.047 U	< 0.01 U	< 0.01 U	< 0.047 U	< 0.048 U	< 0.05 U	< 0.047 U
Aroclor 1232	ug/L	< 0.047 U	< 0.01 U	< 0.01 U	< 0.047 U	< 0.048 U	< 0.05 U	< 0.047 U
Aroclor 1242	ug/L	< 0.047 U	< 0.01 U	< 0.01 U	< 0.047 U	< 0.048 U	< 0.05 U	< 0.047 U
Aroclor 1248	ug/L	< 0.047 U	< 0.01 U	< 0.01 U	< 0.047 U	< 0.048 U	< 0.05 U	< 0.047 U
Aroclor 1254	ug/L	< 0.047 U	< 0.01 U	**0.005 J**	< 0.047 U	< 0.048 U	< 0.05 U	< 0.047 U
Aroclor 1260	ug/L	< 0.047 U	< 0.01 U	**0.01 J**	< 0.047 U	< 0.048 U	**0.015 J**	< 0.047 U
Aroclor 1262	ug/L		< 0.01 U	< 0.01 U			< 0.05 U	
Aroclor 1268	ug/L		< 0.01 U	< 0.01 U			< 0.05 U	
Total PCB Aroclors (ND = 0)	ug/L	< 0.047 UA	< 0.01 U	**0.015 J**	< 0.047 UA	< 0.048 UA	**0.015 J**	< 0.047 UA
Polychlorinated Biphenyl Congeners								
PCB-001	ug/L	**1.33E-6 J**			**1.28E-6 J**	**1.30E-6 J**		**2.33E-6 J**
PCB-002	ug/L	**1.48E-6 J**			**1.60E-6 J**	**8.81E-7 J**		**1.57E-6 J**
PCB-003	ug/L	**1.27E-6 J**			**9.19E-7 J**	**8.27E-7 J**		**1.95E-6 J**
PCB-004/010	ug/L	< 9.95E-6 U			< 2.27E-6 U	< 9.69E-6 U		**7.81E-6 J**
PCB-005/008	ug/L	**1.42E-5**			**1.09E-5**	**1.09E-5**		**2.70E-5**
PCB-006	ug/L	**3.21E-6 J**			< 1.71E-6 U	< 4.85E-6 U		**5.75E-6**
PCB-007/009	ug/L	< 9.95E-6 U			< 2.31E-6 U	< 9.69E-6 U		< 1.01E-5 U
PCB-011	ug/L	**6.43E-5**			**2.12E-4**	**5.20E-5**		**1.35E-4**
PCB-012/013	ug/L	< 9.95E-6 U			< 3.65E-6 U	< 9.69E-6 U		< 1.01E-5 U
PCB-014	ug/L	< 4.97E-6 U			< 1.44E-6 U	< 4.85E-6 U		< 5.04E-6 U
PCB-015	ug/L	**8.81E-6**			**7.35E-6**	**6.91E-6**		**1.57E-5**
PCB-016/032	ug/L	**1.10E-5**			**1.19E-5**	**1.09E-5**		**1.87E-5**
PCB-017	ug/L	**5.75E-6**			**5.45E-6**	**5.61E-6**		**9.69E-6**
PCB-018	ug/L	**1.57E-5**			**1.68E-5**	**1.59E-5**		**2.71E-5**
PCB-019	ug/L	**1.75E-6 J**			**1.96E-6 J**	**2.26E-6 J**		**3.12E-6 J**
PCB-020/021/033	ug/L	**2.13E-5**			**1.70E-5**	**1.36E-5 J**		**3.35E-5**
PCB-022	ug/L	**1.17E-5**			**1.09E-5**	**8.11E-6**		**2.02E-5**
PCB-023	ug/L	< 4.97E-6 U			< 3.00E-6 U	< 4.85E-6 U		< 5.04E-6 U
PCB-024/027	ug/L	**1.27E-6 J**			**1.39E-6 J**	**1.48E-6 J**		**2.30E-6 J**
PCB-025	ug/L	**2.35E-6 J**			**1.89E-6 J**	< 4.85E-6 U		**3.77E-6 J**
PCB-026	ug/L	**4.55E-6 J**			**3.95E-6 J**	**3.05E-6 J**		**8.26E-6**
PCB-028	ug/L	**2.55E-5**			**2.12E-5**	**1.43E-5**		**4.32E-5**
PCB-029	ug/L	**4.37E-7 J**			< 1.92E-6 U	< 4.85E-6 U		< 5.04E-6 U
PCB-030	ug/L	< 4.97E-6 U			< 1.66E-6 U	< 4.85E-6 U		< 5.04E-6 U
PCB-031	ug/L	**2.04E-5**			**2.00E-5**	**2.00E-5**		**4.66E-5**
PCB-034	ug/L	< 4.97E-6 U			< 1.08E-6 U	< 4.85E-6 U		< 5.04E-6 U
PCB-035	ug/L	**6.85E-6**			**2.93E-5**	**3.77E-6 J**		**1.22E-5**
PCB-036	ug/L	**7.56E-7 J**			**4.71E-6 J**	< 4.85E-6 U		**1.93E-6 J**
PCB-037	ug/L	**1.69E-5**			**1.42E-5**	**9.53E-6**		**3.92E-5**
PCB-038	ug/L	**8.74E-7 J**			< 1.97E-6 U	< 4.85E-6 U		**1.34E-6 J**
PCB-039	ug/L	**3.62E-7 J**			< 2.21E-6 U	< 4.85E-6 U		< 5.04E-6 U
PCB-040	ug/L	**5.75E-6**			**7.75E-6**	**4.56E-6 J**		**2.20E-5**
PCB-041/064/071/072	ug/L	**2.87E-5**			**3.12E-5**	**2.19E-5**		**1.15E-4**
PCB-042/059	ug/L	**9.11E-6 J**			**9.61E-6 J**	**7.13E-6 J**		**2.64E-5**
PCB-043/049	ug/L	**1.91E-5**			**2.29E-5**	**1.56E-5**		**9.50E-5**
PCB-044	ug/L	**3.39E-5**			**4.21E-5**	**2.48E-5**		**1.84E-4**
PCB-045	ug/L	**3.30E-6 J**			**3.97E-6 J**	**3.73E-6 J**		**8.50E-6**
PCB-046	ug/L	**2.07E-6 J**			**2.67E-6 J**	**2.04E-6 J**		**4.65E-6 J**
PCB-047	ug/L	**2.06E-5**			**1.66E-5**	**6.83E-6**		**2.37E-5**
PCB-048/075	ug/L	**4.52E-6 J**			**4.52E-6 J**	**3.40E-6 J**		**1.16E-5**
PCB-050	ug/L	< 4.97E-6 U			< 1.91E-6 U	< 4.85E-6 U		< 5.04E-6 U
PCB-051	ug/L	< 4.97E-6 U			**2.98E-6 J**	**1.31E-6 J**		**2.84E-6 J**
PCB-052/069	ug/L	**3.63E-5**			**5.33E-5**	**2.97E-5**		**2.92E-4**
PCB-053	ug/L	**3.31E-6 J**			**3.72E-6 J**	**2.95E-6 J**		**1.09E-5**
PCB-054	ug/L	< 4.97E-6 U			< 2.17E-6 U	< 4.85E-6 U		< 5.04E-6 U
PCB-055	ug/L	**1.53E-6 J**			**1.35E-6 J**	**7.29E-7 J**		**5.83E-6**
PCB-056/060	ug/L	**2.73E-5**			**2.99E-5**	**1.60E-5**		**1.54E-4**
PCB-057	ug/L	< 4.97E-6 U			< 2.31E-6 U	< 4.85E-6 U		< 5.04E-6 U
PCB-058	ug/L	< 4.97E-6 U			< 3.01E-6 U	< 4.85E-6 U		< 5.04E-6 U
PCB-061/070	ug/L	**5.79E-5**			**7.42E-5**	**3.68E-5**		**3.92E-4**
PCB-062	ug/L	< 4.97E-6 U			< 1.98E-6 U	< 4.85E-6 U		< 5.04E-6 U
PCB-063	ug/L	**1.31E-6 J**			**1.16E-6 J**	**7.63E-7 J**		**5.26E-6**
PCB-065	ug/L	< 4.97E-6 U			< 2.61E-6 U	< 4.85E-6 U		< 5.04E-6 U
PCB-066/076	ug/L	**3.02E-5**			**3.71E-5**	**1.99E-5**		**1.87E-4**
PCB-067	ug/L	< 4.97E-6 U			**1.40E-6 J**	**7.19E-7 J**		**3.43E-6 J**
PCB-068	ug/L	**2.57E-6 J**			**1.60E-6 J**	< 4.85E-6 U		**1.14E-6 J**
PCB-073	ug/L	< 4.97E-6 U			< 1.69E-6 U	< 4.85E-6 U		< 5.04E-6 U
PCB-074	ug/L	**1.66E-5**			**1.74E-5**	**1.06E-5**		**8.79E-5**
PCB-077	ug/L	**1.18E-5**			**2.02E-5**	**7.27E-6**		**5.84E-5**
PCB-078	ug/L	**6.59E-7 J**			< 1.95E-6 U	< 4.85E-6 U		< 5.04E-6 U
PCB-079	ug/L	**1.80E-6 J**			**2.56E-6 J**	**1.14E-6 J**		**1.20E-5**
PCB-080	ug/L	< 4.97E-6 U			< 2.47E-6 U	< 4.85E-6 U		< 5.04E-6 U
PCB-081	ug/L	**1.23E-6 J**			**1.32E-6 J**	**5.37E-7 J**		**1.12E-5**
PCB-082	ug/L	**2.12E-5**			**3.54E-5**	**1.34E-5**		**1.54E-4**

Table I.6.E Individual PCB Aroclors and Congeners in Storwmater

South Park Marina Site, Seattle, Washington

Location		CB-01	CB-02					CB-05
Sample Date		09/19/17	03/05/21	05/27/21	06/08/17	09/19/17	11/22/22	09/19/17
Sample		SPM-CB-01-SW-20170919	CB-02-SW-210305	CB-02-SW-210527	SPM-CB-02-SW-20170608	SPM-CB-02-SW-20170919	CB-02-SW-221122	SPM-CB-05-SW-20170919
Analyte	Unit							
PCB-083	ug/L	< 4.97E-6 U			< 1.16E-6 U	< 4.85E-6 U		< 5.04E-6 U
PCB-084/092	ug/L	**4.36E-5**			**7.76E-5**	**3.64E-5**		**3.88E-4**
PCB-085/116	ug/L	**2.17E-5**			**3.09E-5**	**1.46E-5**		**1.79E-4**
PCB-086	ug/L	< 4.97E-6 U			< 3.08E-6 U	< 4.85E-6 U		< 5.04E-6 U
PCB-087/117/125	ug/L	**5.36E-5**			**8.41E-5**	**3.86E-5**		**4.36E-4**
PCB-088/091	ug/L	**1.28E-5**			**2.11E-5**	**9.46E-6**		**1.06E-4**
PCB-089	ug/L	< 4.97E-6 U			**1.99E-6 J**	< 4.85E-6 U		**8.01E-6**
PCB-090/101	ug/L	**1.33E-4**			**2.00E-4**	**1.04E-4**		**9.81E-4**
PCB-093	ug/L	< 4.97E-6 U			< 1.86E-6 U	< 4.85E-6 U		< 5.04E-6 U
PCB-094	ug/L	< 4.97E-6 U			< 2.17E-6 U	< 4.85E-6 U		**3.17E-6 J**
PCB-095/098/102	ug/L	**7.13E-5**			**1.38E-4**	**7.17E-5**		**6.56E-4**
PCB-096	ug/L	< 4.97E-6 U			**1.55E-6 J**	< 4.85E-6 U		**4.36E-6 J**
PCB-097	ug/L	**3.90E-5**			**6.29E-5**	**2.68E-5**		**3.26E-4**
PCB-099	ug/L	**4.44E-5**			**6.59E-5**	**2.98E-5**		**3.78E-4**
PCB-100	ug/L	< 4.97E-6 U			< 1.54E-6 U	< 4.85E-6 U		**1.25E-6 J**
PCB-103	ug/L	< 4.97E-6 U			**1.15E-6 J**	< 4.85E-6 U		**3.10E-6 J**
PCB-104	ug/L	< 4.97E-6 U			< 1.42E-6 U	< 4.85E-6 U		< 5.04E-6 U
PCB-105	ug/L	**6.65E-5**			**1.02E-4**	**4.60E-5**		**5.41E-4**
PCB-106/118	ug/L	**1.39E-4**			**2.16E-4**	**9.19E-5**		**1.10E-3**
PCB-107/109	ug/L	**1.09E-5**			**1.80E-5**	**7.69E-6 J**		**7.06E-5**
PCB-108/112	ug/L	**5.69E-6 J**			**8.82E-6 J**	**4.09E-6 J**		**4.37E-5**
PCB-110	ug/L	**1.76E-4**			**2.85E-4**	**1.28E-4**		**1.37E-3**
PCB-111/115	ug/L	< 9.95E-6 U			**3.02E-6 J**	**1.37E-6 J**		**1.88E-5**
PCB-113	ug/L	< 4.97E-6 U			**8.89E-7 J**	< 4.85E-6 U		< 5.04E-6 U
PCB-114	ug/L	**3.61E-6 J**			**5.21E-6**	**1.70E-6 J**		**2.77E-5**
PCB-119	ug/L	**1.99E-6 J**			**2.69E-6 J**	< 4.85E-6 U		**1.27E-5**
PCB-120	ug/L	< 4.97E-6 U			**1.02E-6 J**	< 4.85E-6 U		**2.37E-6 J**
PCB-121	ug/L	< 4.97E-6 U			< 4.01E-6 U	< 4.85E-6 U		< 5.04E-6 U
PCB-122	ug/L	< 4.97E-6 U			**3.00E-6 J**	< 4.85E-6 U		**1.47E-5**
PCB-123	ug/L	**3.00E-6 J**			**3.74E-6 J**	**1.53E-6 J**		**1.57E-5**
PCB-124	ug/L	**8.54E-6**			**1.33E-5**	**6.82E-6**		**5.35E-5**
PCB-126	ug/L	**5.00E-6**			**8.09E-6**	**2.88E-6 J**		**1.38E-5**
PCB-127	ug/L	< 4.97E-6 U			< 1.02E-6 U	< 4.85E-6 U		< 5.04E-6 U
PCB-128/162	ug/L	**4.35E-5**			**7.15E-5**	**3.10E-5**		**2.11E-4**
PCB-129	ug/L	**1.29E-5**			**2.26E-5**	**1.00E-5**		**6.99E-5**
PCB-130	ug/L	**1.91E-5**			**3.76E-5**	**1.75E-5**		**7.70E-5**
PCB-131	ug/L							
PCB-131/133	ug/L	**7.80E-6 J**			**1.32E-5**	**6.48E-6 J**		**3.42E-5**
PCB-132/161	ug/L	**7.47E-5**			**1.42E-4**	**7.05E-5**		**3.84E-4**
PCB-133/142	ug/L							
PCB-134/143	ug/L	**1.18E-5**			**2.26E-5**	**1.16E-5**		**6.42E-5**
PCB-135	ug/L	**3.42E-5**			**5.14E-5**	**3.39E-5**		**1.55E-4**
PCB-136	ug/L	**2.15E-5**			**3.85E-5**	**2.62E-5**		**1.31E-4**
PCB-137	ug/L	**1.25E-5**			**1.73E-5**	**6.37E-6**		**7.34E-5**
PCB-138/163/164	ug/L	**3.31E-4**			**5.68E-4**	**2.91E-4**		**1.44E-3**
PCB-139/149	ug/L	**2.24E-4**			**3.10E-4**	**2.15E-4**		**1.02E-3**
PCB-140	ug/L	**2.50E-6 J**			**2.87E-6 J**	< 4.85E-6 U		**6.75E-6**
PCB-141	ug/L	**6.63E-5**			**1.27E-4**	**7.08E-5**		**2.97E-4**
PCB-142	ug/L	< 4.97E-6 U			< 2.29E-6 U	< 4.85E-6 U		< 5.04E-6 U
PCB-144	ug/L	**1.12E-5**			**1.77E-5**	**1.10E-5**		**5.64E-5**
PCB-145	ug/L	< 4.97E-6 U			< 3.32E-6 U	< 4.85E-6 U		< 5.04E-6 U
PCB-146/165	ug/L	**4.61E-5**			**7.87E-5**	**4.20E-5**		**1.83E-4**
PCB-147	ug/L	**3.66E-6 J**			**5.32E-6**	< 4.85E-6 U		**1.85E-5**
PCB-148	ug/L	< 4.97E-6 U			< 4.82E-6 U	< 4.85E-6 U		< 5.04E-6 U
PCB-150	ug/L	**7.48E-7 J**			**1.02E-6 J**	< 4.85E-6 U		**2.71E-6 J**
PCB-151	ug/L	**5.25E-5**			**8.43E-5**	**6.00E-5**		**2.71E-4**
PCB-152	ug/L	< 4.97E-6 U			< 2.69E-6 U	< 4.85E-6 U		**1.32E-6 J**
PCB-153	ug/L	**3.09E-4**			**4.99E-4**	**2.90E-4**		**1.31E-3**
PCB-154	ug/L	**5.03E-6**			**4.94E-6**	**2.64E-6 J**		**1.19E-5**
PCB-155	ug/L	< 4.97E-6 U			< 2.44E-6 U	< 4.85E-6 U		< 5.04E-6 U
PCB-156	ug/L	**2.81E-5**			**4.45E-5**	**2.12E-5**		**1.40E-4**
PCB-157	ug/L	**6.27E-6**			**1.04E-5**	**5.01E-6**		**3.36E-5**
PCB-158/160	ug/L	**3.33E-5**			**5.79E-5**	**2.94E-5**		**1.59E-4**
PCB-159	ug/L	**5.04E-6**			< 1.75E-6 U	< 4.85E-6 U		< 5.04E-6 U
PCB-166	ug/L	**1.08E-6 J**			**1.26E-6 J**	< 4.85E-6 U		**4.01E-6 J**
PCB-167	ug/L	**1.64E-5**			**2.55E-5**	**1.21E-5**		**6.21E-5**
PCB-168	ug/L	< 4.97E-6 U			< 1.04E-6 U	< 4.85E-6 U		< 5.04E-6 U
PCB-169	ug/L	< 4.97E-6 U			**6.87E-7 J**	< 4.56E-7 U		< 5.04E-6 U
PCB-170	ug/L	**1.32E-4**			**2.15E-4**	**1.27E-4**		**5.21E-4**
PCB-171	ug/L	**3.54E-5**			**5.66E-5**	**3.43E-5**		**1.38E-4**
PCB-172	ug/L	**2.67E-5**			**4.50E-5**	**2.49E-5**		**1.02E-4**
PCB-173	ug/L	**2.06E-6 J**			**4.77E-6 J**	**2.87E-6 J**		**9.83E-6**
PCB-174	ug/L	**1.41E-4**			**2.53E-4**	**1.48E-4**		**7.15E-4**
PCB-175	ug/L	**4.79E-6 J**			**8.77E-6**	**5.13E-6**		**2.13E-5**
PCB-176	ug/L	**1.12E-5**			**2.18E-5**	**1.48E-5**		**6.24E-5**
PCB-177	ug/L	**8.31E-5**			**1.45E-4**	**8.34E-5**		**3.75E-4**

Table I.6.E Individual PCB Aroclors and Congeners in Storwmater

South Park Marina Site, Seattle, Washington

Location		CB-01	CB-02					CB-05
Sample Date		09/19/17	03/05/21	05/27/21	06/08/17	09/19/17	11/22/22	09/19/17
Sample		SPM-CB-01-SW-20170919	CB-02-SW-210305	CB-02-SW-210527	SPM-CB-02-SW-20170608	SPM-CB-02-SW-20170919	CB-02-SW-221122	SPM-CB-05-SW-20170919
Analyte	**Unit**							
PCB-178	ug/L	**2.14E-5**			**4.35E-5**	**2.80E-5**		**1.19E-4**
PCB-179	ug/L	**3.66E-5**			**7.81E-5**	**5.15E-5**		**2.42E-4**
PCB-180	ug/L	**3.45E-4**			**5.62E-4**	**3.34E-4**		**1.60E-3**
PCB-181	ug/L	< 4.97E-6 U			< 1.85E-6 U	< 4.85E-6 U		< 5.04E-6 U
PCB-182/187	ug/L	**1.36E-4**			**2.57E-4**	**1.66E-4**		**7.74E-4**
PCB-183	ug/L	**5.79E-5**			**1.09E-4**	**7.04E-5**		**2.94E-4**
PCB-184	ug/L	< 4.97E-6 U			< 1.40E-6 U	< 4.85E-6 U		< 5.04E-6 U
PCB-185	ug/L	**1.40E-5**			**2.55E-5**	**1.53E-5**		**6.91E-5**
PCB-186	ug/L	< 4.97E-6 U			< 2.69E-6 U	< 4.85E-6 U		< 5.04E-6 U
PCB-188	ug/L	**5.17E-7 J**			**9.30E-7 J**	< 4.85E-6 U		**1.62E-6 J**
PCB-189	ug/L	< 4.97E-6 U			**7.65E-6**	**4.37E-6 J**		**1.80E-5**
PCB-190	ug/L	**2.30E-5**			**4.13E-5**	**2.38E-5**		**8.91E-5**
PCB-191	ug/L	**4.90E-6 J**			**9.27E-6**	**6.18E-6**		**2.03E-5**
PCB-192	ug/L	< 4.97E-6 U			< 1.79E-6 U	< 4.85E-6 U		< 5.04E-6 U
PCB-193	ug/L	**1.56E-5**			**2.72E-5**	**1.61E-5**		**6.60E-5**
PCB-194	ug/L	**7.45E-5**			**1.20E-4**	**7.64E-5**		**4.28E-4**
PCB-195	ug/L	**3.03E-5**			**4.77E-5**	**3.10E-5**		**1.23E-4**
PCB-196/203	ug/L	**5.26E-5**			**1.07E-4**	**8.28E-5**		**2.76E-4**
PCB-197	ug/L	**1.88E-6 J**			< 2.45E-6 U	**2.93E-6 J**		**1.31E-5**
PCB-198	ug/L	**2.83E-6 J**			**4.04E-6 J**	**3.07E-6 J**		**1.84E-5**
PCB-199	ug/L	**5.13E-5**			**1.12E-4**	**8.24E-5**		**4.13E-4**
PCB-200	ug/L	**6.15E-6**			**1.20E-5**	**8.97E-6**		**3.01E-5**
PCB-201	ug/L	**7.64E-6**			**1.16E-5**	**8.63E-6**		**5.37E-5**
PCB-202	ug/L	**1.23E-5**			**1.77E-5**	**1.38E-5**		**8.38E-5**
PCB-204	ug/L	< 4.97E-6 U			< 2.47E-6 U	< 4.85E-6 U		< 5.04E-6 U
PCB-205	ug/L	< 4.97E-6 U			**5.42E-6**	**3.73E-6 J**		**1.03E-5**
PCB-206	ug/L	**2.14E-5**			**2.48E-5**	**1.73E-5**		**5.06E-5**
PCB-207	ug/L	**2.74E-6 J**			**3.46E-6 J**	**2.09E-6 J**		**6.58E-6**
PCB-208	ug/L	**5.28E-6**			**5.22E-6**	**3.43E-6 J**		**1.07E-5**
PCB-209	ug/L	**3.18E-6 J**			**3.43E-6 J**	**3.41E-6 J**		**1.10E-5**
Total Decachlorobiphenyls	ug/L	**3.18E-6**			**3.43E-6**	**3.41E-6**		**1.10E-5**
Total Dichlorobiphenyls	ug/L	**9.05E-5 J**			**2.30E-4**	**6.98E-5**		**1.92E-4**
Total Heptachlorobiphenyls	ug/L	**1.09E-3 J**			**1.91E-3**	**1.16E-3**		**5.24E-3**
Total Hexachlorobiphenyls	ug/L	**1.38E-3**			**2.26E-3**	**1.26E-3 J**		**6.22E-3**
Total Monochlorobiphenyls	ug/L	**4.08E-6**			**3.80E-6**	**3.00E-6**		**5.84E-6**
Total Nonachlorobiphenyls	ug/L	**2.95E-5**			**3.35E-5**	**2.28E-5**		**6.79E-5**
Total Octachlorobiphenyls	ug/L	**2.39E-4 J**			**4.38E-4**	**3.14E-4**		**1.45E-3**
Total Pentachlorobiphenyls	ug/L	**8.60E-4 J**			**1.39E-3**	**6.37E-4**		**6.91E-3**
Total Tetrachlorobiphenyls	ug/L	**3.20E-4 J**			**3.89E-4**	**2.19E-4**		**1.71E-3**
Total Trichlorobiphenyls	ug/L	**1.47E-4**			**1.61E-4**	**1.08E-4 J**		**2.71E-4**
Total PCB Congeners (ND = 0)	ug/L	**4.17E-3 J**			**6.82E-3 J**	**3.80E-3 J**		**2.21E-2 J**
Total PCB TEQ (ND = 0)	ug/L	**5.05E-7 J**			**8.38E-7 J**	**2.92E-7 J**		**1.41E-6**

Notes:

Bold = detected

mg/kg = milligrams per kilogram

U = Analyte not detected at or above the RDL shown

J = Result value estimated

UJ = Analyte not detected, and the RDL shown is an estimate

(ND = 0) = calculated using zero for nondetected components

TEQ = Toxic Equivalency

A = One or more of the nine common Aroclor groups (1016, 1221, 1232, 1242, 1248, 1254, 1260, 1262, and 1268) were not reported, and the Total PCB Aroclors (ND = 0) sum assumes the missing components were nondetect.

Total PCB Aroclors (ND = 0) are the sum of Aroclors available, with nondetects = 0, unless all Aroclors were not detected, in which case the Total PCB Aroclors concentration is shown as nondetect at the maximum RDL for any individual Aroclor.

RDL = Reported Detection Limit

Table I.6.E Individual PCB Aroclors and Congeners in Storwmater

South Park Marina Site, Seattle, Washington

Location		CB-06				
Sample Date		03/04/21	05/27/21	06/08/17	09/19/17	11/22/22
Sample		CB-06-SW-210304	CB-06-SW-210527	SPM-CB-06-SW-20170608	SPM-CB-06-SW-20170919	CB-06-SW-221122
Analyte	**Unit**					
Polychlorinated Biphenyl Aroclors						
Aroclor 1016	ug/L	< 0.01 U	< 0.01 U	< 0.047 U	< 0.048 U	< 0.05 U
Aroclor 1221	ug/L	< 0.01 U	< 0.01 U	< 0.047 U	< 0.048 U	< 0.05 U
Aroclor 1232	ug/L	< 0.01 U	< 0.01 U	< 0.047 U	< 0.048 U	< 0.05 U
Aroclor 1242	ug/L	< 0.01 U	< 0.01 U	< 0.047 U	< 0.048 U	< 0.05 U
Aroclor 1248	ug/L	< 0.01 U	< 0.01 U	< 0.047 U	< 0.048 U	< 0.05 U
Aroclor 1254	ug/L	**0.006 J**	< 0.01 U	< 0.047 U	< 0.048 U	< 0.05 U
Aroclor 1260	ug/L	**0.011 J**	< 0.01 U	< 0.047 U	< 0.048 U	**0.0046 J**
Aroclor 1262	ug/L	< 0.01 U	< 0.01 U			< 0.05 U
Aroclor 1268	ug/L	< 0.01 U	< 0.01 U			< 0.05 U
Total PCB Aroclors (ND = 0)	ug/L	**0.017 J**	< 0.01 U	< 0.047 UA	< 0.048 UA	**0.0046 J**
Polychlorinated Biphenyl Congeners						
PCB-001	ug/L			**1.72E-6 J**	**6.33E-6 J**	
PCB-002	ug/L			**2.45E-6 J**	**5.72E-6 J**	
PCB-003	ug/L			**2.47E-6 J**	**7.72E-6 J**	
PCB-004/010	ug/L			< 2.27E-6 U	< 5.06E-5 U	
PCB-005/008	ug/L			**2.02E-5**	**6.05E-5**	
PCB-006	ug/L			< 1.71E-6 U	< 2.53E-5 U	
PCB-007/009	ug/L			< 2.31E-6 U	< 5.06E-5 U	
PCB-011	ug/L			**5.42E-4**	**4.20E-4**	
PCB-012/013	ug/L			< 3.65E-6 U	< 5.06E-5 U	
PCB-014	ug/L			< 1.44E-6 U	< 2.53E-5 U	
PCB-015	ug/L			**1.88E-5**	**4.00E-5**	
PCB-016/032	ug/L			**2.10E-5**	**4.68E-5 J**	
PCB-017	ug/L			**9.95E-6**	**2.58E-5**	
PCB-018	ug/L			**2.81E-5**	**7.03E-5**	
PCB-019	ug/L			**2.75E-6 J**	< 2.53E-5 U	
PCB-020/021/033	ug/L			**5.59E-5**	**3.68E-5 J**	
PCB-022	ug/L			**3.34E-5**	**1.70E-5 J**	
PCB-023	ug/L			< 3.00E-6 U	< 2.53E-5 U	
PCB-024/027	ug/L			**2.47E-6 J**	< 5.06E-5 U	
PCB-025	ug/L			**5.49E-6**	< 2.53E-5 U	
PCB-026	ug/L			**1.33E-5**	< 2.53E-5 U	
PCB-028	ug/L			**5.78E-5**	**3.86E-5**	
PCB-029	ug/L			< 1.92E-6 U	< 2.53E-5 U	
PCB-030	ug/L			< 1.66E-6 U	< 2.53E-5 U	
PCB-031	ug/L			**6.17E-5**	**3.83E-5**	
PCB-034	ug/L			< 1.08E-6 U	< 2.53E-5 U	
PCB-035	ug/L			**6.40E-5**	**1.57E-5 J**	
PCB-036	ug/L			**7.41E-6**	< 2.53E-5 U	
PCB-037	ug/L			**6.55E-5**	**2.89E-5**	
PCB-038	ug/L			**1.92E-6 J**	< 2.53E-5 U	
PCB-039	ug/L			< 2.21E-6 U	< 2.53E-5 U	
PCB-040	ug/L			**3.26E-5**	**2.38E-5 J**	
PCB-041/064/071/072	ug/L			**1.84E-4**	**1.22E-4**	
PCB-042/059	ug/L			**4.20E-5**	**3.29E-5 J**	
PCB-043/049	ug/L			**1.68E-4**	**1.12E-4**	
PCB-044	ug/L			**3.67E-4**	**2.22E-4**	
PCB-045	ug/L			**9.62E-6**	**1.25E-5 J**	
PCB-046	ug/L			**6.30E-6**	**6.52E-6 J**	
PCB-047	ug/L			**3.85E-5**	**2.26E-5 J**	
PCB-048/075	ug/L			**1.72E-5**	**1.54E-5 J**	
PCB-050	ug/L			< 1.91E-6 U	< 2.53E-5 U	
PCB-051	ug/L			**5.54E-6**	< 2.53E-5 U	
PCB-052/069	ug/L			**5.34E-4**	**3.49E-4**	
PCB-053	ug/L			**1.47E-5**	**1.49E-5 J**	
PCB-054	ug/L			< 2.17E-6 U	< 2.53E-5 U	
PCB-055	ug/L			**1.35E-5**	**8.72E-6 J**	
PCB-056/060	ug/L			**2.61E-4**	**1.25E-4**	
PCB-057	ug/L			**1.46E-6 J**	< 2.53E-5 U	
PCB-058	ug/L			**9.22E-7 J**	< 2.53E-5 U	
PCB-061/070	ug/L			**1.20E-3**	**4.72E-4**	
PCB-062	ug/L			< 1.98E-6 U	< 2.53E-5 U	
PCB-063	ug/L			**1.17E-5**	< 2.53E-5 U	
PCB-065	ug/L			< 2.61E-6 U	< 2.53E-5 U	
PCB-066/076	ug/L			**3.66E-4**	**1.88E-4**	
PCB-067	ug/L			**1.33E-5**	< 2.53E-5 U	
PCB-068	ug/L			**3.63E-6 J**	< 2.53E-5 U	
PCB-073	ug/L			< 1.69E-6 U	< 2.53E-5 U	
PCB-074	ug/L			**2.07E-4**	**1.01E-4**	
PCB-077	ug/L			**3.15E-4**	**6.30E-5**	
PCB-078	ug/L			< 1.95E-6 U	< 2.53E-5 U	
PCB-079	ug/L			**3.93E-5**	**1.68E-5 J**	
PCB-080	ug/L			< 2.47E-6 U	< 2.53E-5 U	
PCB-081	ug/L			**2.35E-5**	**1.22E-5 J**	
PCB-082	ug/L			**6.20E-4**	**2.38E-4**	

Table I.6.E Individual PCB Aroclors and Congeners in Storwmater

South Park Marina Site, Seattle, Washington

Location		CB-06				
Sample Date		03/04/21	05/27/21	06/08/17	09/19/17	11/22/22
Sample		CB-06-SW-210304	CB-06-SW-210527	SPM-CB-06-SW-20170608	SPM-CB-06-SW-20170919	CB-06-SW-221122
Analyte	Unit					
PCB-083	ug/L			< 1.16E-6 U	< 2.53E-5 U	
PCB-084/092	ug/L			**1.11E-3**	**6.05E-4**	
PCB-085/116	ug/L			**6.06E-4**	**2.38E-4**	
PCB-086	ug/L			< 3.08E-6 U	< 2.53E-5 U	
PCB-087/117/125	ug/L			**1.62E-3**	**6.85E-4**	
PCB-088/091	ug/L			**2.82E-4**	**1.66E-4**	
PCB-089	ug/L			**2.05E-5**	**1.07E-5 J**	
PCB-090/101	ug/L			**3.01E-3**	**1.47E-3**	
PCB-093	ug/L			< 1.86E-6 U	< 2.53E-5 U	
PCB-094	ug/L			**6.77E-6**	< 2.53E-5 U	
PCB-095/098/102	ug/L			**1.53E-3**	**1.02E-3**	
PCB-096	ug/L			**8.36E-6**	< 2.53E-5 U	
PCB-097	ug/L			**1.13E-3**	**4.72E-4**	
PCB-099	ug/L			**1.21E-3**	**5.39E-4**	
PCB-100	ug/L			**3.84E-6 J**	< 2.53E-5 U	
PCB-103	ug/L			**7.85E-6**	< 2.53E-5 U	
PCB-104	ug/L			< 1.42E-6 U	< 2.53E-5 U	
PCB-105	ug/L			**2.47E-3**	**6.53E-4**	
PCB-106/118	ug/L			**4.86E-3**	**1.50E-3**	
PCB-107/109	ug/L			**3.33E-4**	**1.06E-4**	
PCB-108/112	ug/L			**1.43E-4**	**6.37E-5**	
PCB-110	ug/L			**5.06E-3**	**2.03E-3**	
PCB-111/115	ug/L			**5.81E-5**	**2.37E-5 J**	
PCB-113	ug/L			< 3.03E-6 U	< 2.53E-5 U	
PCB-114	ug/L			**1.15E-4**	**3.50E-5**	
PCB-119	ug/L			**3.93E-5**	**1.87E-5 J**	
PCB-120	ug/L			< 1.82E-6 U	< 2.53E-5 U	
PCB-121	ug/L			< 4.01E-6 U	< 2.53E-5 U	
PCB-122	ug/L			**6.16E-5**	< 2.53E-5 U	
PCB-123	ug/L			**6.90E-5**	**2.26E-5 J**	
PCB-124	ug/L			**2.30E-4**	**8.09E-5**	
PCB-126	ug/L			**1.12E-4**	**2.33E-5 J**	
PCB-127	ug/L			< 1.02E-6 U	< 2.53E-5 U	
PCB-128/162	ug/L			**1.15E-3**	**3.76E-4**	
PCB-129	ug/L			**3.67E-4**	**1.37E-4**	
PCB-130	ug/L			**4.04E-4**	**1.04E-4**	
PCB-131	ug/L					
PCB-131/133	ug/L			**1.41E-4**	**6.37E-5**	
PCB-132/161	ug/L			**1.50E-3**	**6.50E-4**	
PCB-133/142	ug/L					
PCB-134/143	ug/L			**2.52E-4**	**1.18E-4**	
PCB-135	ug/L			**4.02E-4**	**2.56E-4**	
PCB-136	ug/L			**2.87E-4**	**2.16E-4**	
PCB-137	ug/L			**3.41E-4**	**1.31E-4**	
PCB-138/163/164	ug/L			**5.81E-3**	**2.20E-3**	
PCB-139/149	ug/L			**2.35E-3**	**1.48E-3**	
PCB-140	ug/L			**2.19E-5**	**1.23E-5 J**	
PCB-141	ug/L			**8.80E-4**	**3.74E-4**	
PCB-142	ug/L			< 3.62E-6 U	< 2.53E-5 U	
PCB-144	ug/L			**1.17E-4**	**8.35E-5**	
PCB-145	ug/L			**1.63E-6 J**	< 2.53E-5 U	
PCB-146/165	ug/L			**5.74E-4**	**2.51E-4**	
PCB-147	ug/L			**7.16E-5**	**4.01E-5**	
PCB-148	ug/L			< 4.82E-6 U	< 2.53E-5 U	
PCB-150	ug/L			< 1.07E-6 U	< 2.53E-5 U	
PCB-151	ug/L			**4.41E-4**	**3.37E-4**	
PCB-152	ug/L			**2.71E-6 J**	< 2.53E-5 U	
PCB-153	ug/L			**3.73E-3**	**1.63E-3**	
PCB-154	ug/L			**3.19E-5**	**1.94E-5 J**	
PCB-155	ug/L			< 2.44E-6 U	< 2.53E-5 U	
PCB-156	ug/L			**7.12E-4**	**2.45E-4**	
PCB-157	ug/L			**1.72E-4**	**5.86E-5**	
PCB-158/160	ug/L			**7.04E-4**	**2.63E-4**	
PCB-159	ug/L			< 1.75E-6 U	< 2.53E-5 U	
PCB-166	ug/L			**2.55E-5**	**9.40E-6 J**	
PCB-167	ug/L			**2.89E-4**	**9.68E-5**	
PCB-168	ug/L			**4.62E-6 J**	< 2.53E-5 U	
PCB-169	ug/L			**2.69E-6 J**	< 2.53E-5 U	
PCB-170	ug/L			**8.35E-4**	**4.81E-4**	
PCB-171	ug/L			**2.19E-4**	**1.28E-4**	
PCB-172	ug/L			**1.43E-4**	**8.23E-5**	
PCB-173	ug/L			**2.25E-5**	**1.26E-5 J**	
PCB-174	ug/L			**7.58E-4**	**4.73E-4**	
PCB-175	ug/L			**2.45E-5**	**1.86E-5 J**	
PCB-176	ug/L			**6.19E-5**	**4.75E-5**	
PCB-177	ug/L			**4.56E-4**	**2.89E-4**	

Table I.6.E Individual PCB Aroclors and Congeners in Storwmater

South Park Marina Site, Seattle, Washington

Location		CB-06				
Sample Date		03/04/21	05/27/21	06/08/17	09/19/17	11/22/22
Sample		CB-06-SW-210304	CB-06-SW-210527	SPM-CB-06-SW-20170608	SPM-CB-06-SW-20170919	CB-06-SW-221122
Analyte	Unit					
PCB-178	ug/L			**1.08E-4**	**8.33E-5**	
PCB-179	ug/L			**1.87E-4**	**1.67E-4**	
PCB-180	ug/L			**1.72E-3**	**1.08E-3**	
PCB-181	ug/L			< 1.85E-6 U	< 2.53E-5 U	
PCB-182/187	ug/L			**6.35E-4**	**4.92E-4**	
PCB-183	ug/L			**3.02E-4**	**2.15E-4**	
PCB-184	ug/L			**1.48E-6 J**	**2.00E-6 J**	
PCB-185	ug/L			**6.67E-5**	**5.22E-5**	
PCB-186	ug/L			< 2.69E-6 U	< 2.53E-5 U	
PCB-188	ug/L			**1.94E-6 J**	< 2.53E-5 U	
PCB-189	ug/L			**3.33E-5**	**2.02E-5 J**	
PCB-190	ug/L			**1.41E-4**	**8.08E-5**	
PCB-191	ug/L			**3.18E-5**	**1.94E-5 J**	
PCB-192	ug/L			< 1.79E-6 U	< 2.53E-5 U	
PCB-193	ug/L			**7.02E-5**	**5.02E-5**	
PCB-194	ug/L			**2.99E-4**	**2.12E-4**	
PCB-195	ug/L			**1.29E-4**	**8.64E-5**	
PCB-196/203	ug/L			**2.24E-4**	**1.98E-4**	
PCB-197	ug/L			**6.72E-6**	< 2.53E-5 U	
PCB-198	ug/L			**8.15E-6**	< 2.53E-5 U	
PCB-199	ug/L			**2.44E-4**	**2.26E-4**	
PCB-200	ug/L			**2.43E-5**	**2.38E-5 J**	
PCB-201	ug/L			**2.58E-5**	**2.78E-5**	
PCB-202	ug/L			**4.01E-5**	**4.01E-5**	
PCB-204	ug/L			< 2.47E-6 U	< 2.53E-5 U	
PCB-205	ug/L			**1.25E-5**	**1.34E-5 J**	
PCB-206	ug/L			**9.36E-5**	**6.84E-5 J**	
PCB-207	ug/L			**1.06E-5**	**6.83E-6 J**	
PCB-208	ug/L			**2.28E-5**	**1.62E-5 J**	
PCB-209	ug/L			**1.23E-5**	**1.30E-5 J**	
Total Decachlorobiphenyls	ug/L			**1.23E-5**	**1.30E-5**	
Total Dichlorobiphenyls	ug/L			**5.81E-4**	**5.21E-4**	
Total Heptachlorobiphenyls	ug/L			**5.82E-3**	**3.80E-3**	
Total Hexachlorobiphenyls	ug/L			**2.08E-2**	**9.15E-3**	
Total Monochlorobiphenyls	ug/L			**6.65E-6**	**1.98E-5**	
Total Nonachlorobiphenyls	ug/L			**1.27E-4**	**9.14E-5**	
Total Octachlorobiphenyls	ug/L			**1.01E-3**	**8.27E-4**	
Total Pentachlorobiphenyls	ug/L			**2.47E-2**	**9.99E-3 J**	
Total Tetrachlorobiphenyls	ug/L			**3.87E-3**	**1.92E-3 J**	
Total Trichlorobiphenyls	ug/L			**4.31E-4**	**3.18E-4 J**	
Total PCB Congeners (ND = 0)	ug/L			**5.74E-2 J**	**2.67E-2 J**	
Total PCB TEQ (ND = 0)	ug/L			**1.14E-5 J**	**2.37E-6 J**	

Notes:

Bold = detected

mg/kg = milligrams per kilogram

U = Analyte not detected at or above the RDL shown

J = Result value estimated

UJ = Analyte not detected, and the RDL shown is an estimate

(ND = 0) = calculated using zero for nondetected components

TEQ = Toxic Equivalency

A = One or more of the nine common Aroclor groups (1016, 1221, 1232, 1242, 1248, 1254, 1260, 1262, and 1268) were not reported, and the Total PCB Aroclors (ND = 0) sum assumes the missing components were nondetect.

Total PCB Aroclors (ND = 0) are the sum of Aroclors available, with nondetects = 0, unless all Aroclors were not detected, in which case the Total PCB Aroclors concentration is shown as nondetect at the maximum RDL for any individual Aroclor.

RDL = Reported Detection Limit

Table I.6.E Individual PCB Aroclors and Congeners in Storwmater

South Park Marina Site, Seattle, Washington

Location		SWRX-MID			
Sample Date		04/12/17	05/16/17	06/08/17	09/19/17
Sample		SPM-SWRX-MID-SW-20170412	SPM-SWRX-MID-SW-20170516	SPM-SWRX-MID-SW-20170608	SPM-SWRX-MID-SW-20170919
Analyte	**Unit**				
Polychlorinated Biphenyl Aroclors					
Aroclor 1016	ug/L	< 0.048 U	< 0.048 U	< 0.051 U	< 0.049 U
Aroclor 1221	ug/L	< 0.048 U	< 0.048 U	< 0.051 U	< 0.049 U
Aroclor 1232	ug/L	< 0.048 U	< 0.048 U	< 0.051 U	< 0.049 U
Aroclor 1242	ug/L	< 0.048 U	< 0.048 U	< 0.051 U	< 0.049 U
Aroclor 1248	ug/L	< 0.048 U	< 0.048 U	< 0.051 U	< 0.049 U
Aroclor 1254	ug/L	< 0.048 U	< 0.048 U	< 0.051 U	< 0.049 U
Aroclor 1260	ug/L	< 0.048 U	< 0.048 U	< 0.051 U	< 0.049 U
Aroclor 1262	ug/L				
Aroclor 1268	ug/L				
Total PCB Aroclors (ND = 0)	ug/L	< 0.048 UA	< 0.048 UA	< 0.051 UA	< 0.049 UA
Polychlorinated Biphenyl Congeners					
PCB-001	ug/L	**1.46E-6 J**	**9.39E-7 J**	**6.91E-6**	**3.43E-6 J**
PCB-002	ug/L	**5.45E-7 J**	**8.26E-7 J**	**2.77E-6 J**	**2.06E-6 J**
PCB-003	ug/L	**5.81E-7 J**	**1.03E-6 J**	**1.03E-5**	**3.09E-6 J**
PCB-004/010	ug/L	**3.02E-5**	**1.32E-5**	**5.86E-5**	**1.39E-5**
PCB-005/008	ug/L	**2.93E-5**	**1.45E-5**	**8.23E-5**	**2.46E-5**
PCB-006	ug/L	**6.65E-6**	< 1.71E-6 U	**1.96E-5**	**5.34E-6**
PCB-007/009	ug/L	**4.11E-6 J**	< 2.31E-6 U	< 2.31E-6 U	< 9.97E-6 U
PCB-011	ug/L	**1.52E-4**	**1.10E-4**	**2.71E-4**	**1.37E-4**
PCB-012/013	ug/L	< 3.65E-6 U	< 3.65E-6 U	< 3.65E-6 U	< 9.97E-6 U
PCB-014	ug/L	< 1.44E-6 U	< 1.44E-6 U	< 1.44E-6 U	< 4.99E-6 U
PCB-015	ug/L	**1.78E-5**	**1.10E-5**	**3.87E-5**	**1.63E-5**
PCB-016/032	ug/L	**4.38E-5**	**3.19E-5**	**9.54E-5**	**3.32E-5**
PCB-017	ug/L	**2.14E-5**	**1.33E-5**	**4.83E-5**	**1.55E-5**
PCB-018	ug/L	**6.69E-5**	**4.47E-5**	**1.58E-4**	**5.03E-5**
PCB-019	ug/L	**8.59E-6**	**5.93E-6**	**1.80E-5**	**6.29E-6**
PCB-020/021/033	ug/L	**4.90E-5**	< 7.79E-6 U	**1.15E-4**	**4.21E-5**
PCB-022	ug/L	**2.89E-5**	**9.42E-6**	**6.99E-5**	**2.70E-5**
PCB-023	ug/L	< 3.00E-6 U	< 3.00E-6 U	< 3.00E-6 U	< 4.99E-6 U
PCB-024/027	ug/L	**4.99E-6 J**	**3.58E-6 J**	**1.07E-5**	**4.06E-6 J**
PCB-025	ug/L	**5.83E-6**	< 2.64E-6 U	**1.13E-5**	**4.27E-6 J**
PCB-026	ug/L	**1.28E-5**	**3.97E-6 J**	**2.96E-5**	**1.13E-5**
PCB-028	ug/L	**6.98E-5**	**2.15E-5**	**1.77E-4**	**6.54E-5**
PCB-029	ug/L	< 1.92E-6 U	< 1.92E-6 U	< 1.92E-6 U	< 4.99E-6 U
PCB-030	ug/L	< 1.66E-6 U	< 1.66E-6 U	< 1.66E-6 U	< 4.99E-6 U
PCB-031	ug/L	**5.62E-5**	**2.14E-5**	**1.69E-4**	**5.98E-5**
PCB-034	ug/L	< 1.08E-6 U	< 1.08E-6 U	< 1.08E-6 U	< 4.99E-6 U
PCB-035	ug/L	**1.56E-5**	**6.49E-6**	**4.54E-5**	**1.66E-5**
PCB-036	ug/L	**2.56E-6 J**	< 2.02E-6 U	**4.50E-6 J**	**1.48E-6 J**
PCB-037	ug/L	**3.27E-5**	**1.10E-5**	**8.82E-5**	**4.10E-5**
PCB-038	ug/L	**1.77E-6 J**	< 1.97E-6 U	**2.57E-6 J**	**1.03E-6 J**
PCB-039	ug/L	< 2.21E-6 U	< 2.21E-6 U	< 2.21E-6 U	< 4.99E-6 U
PCB-040	ug/L	**1.92E-5**	**1.14E-5**	**6.41E-5**	**2.36E-5**
PCB-041/064/071/072	ug/L	**8.39E-5**	**4.73E-5**	**2.95E-4**	**1.06E-4**
PCB-042/059	ug/L	**2.74E-5**	**1.47E-5**	**8.65E-5**	**3.06E-5**
PCB-043/049	ug/L	**5.27E-5**	**3.72E-5**	**2.22E-4**	**7.41E-5**
PCB-044	ug/L	**1.10E-4**	**6.52E-5**	**3.83E-4**	**1.46E-4**
PCB-045	ug/L	**1.32E-5**	**7.08E-6**	**3.99E-5**	**1.40E-5**
PCB-046	ug/L	**6.83E-6**	**3.87E-6 J**	**2.08E-5**	**7.52E-6**
PCB-047	ug/L	**2.38E-5**	**1.21E-5**	**7.98E-5**	**2.18E-5**
PCB-048/075	ug/L	**1.32E-5**	**8.78E-6 J**	**4.76E-5**	**1.56E-5**
PCB-050	ug/L	< 1.91E-6 U	< 1.91E-6 U	< 1.91E-6 U	< 4.99E-6 U
PCB-051	ug/L	**4.59E-6 J**	**2.30E-6 J**	**1.47E-5**	**4.45E-6 J**
PCB-052/069	ug/L	**1.14E-4**	**8.18E-5**	**4.68E-4**	**1.91E-4**
PCB-053	ug/L	**1.20E-5**	**7.12E-6**	**4.02E-5**	**1.57E-5**
PCB-054	ug/L	**2.72E-7 J**	< 2.17E-6 U	< 2.17E-6 U	**3.44E-7 J**
PCB-055	ug/L	**2.79E-6 J**	**1.97E-6 J**	**8.38E-6**	**3.99E-6 J**
PCB-056/060	ug/L	**8.29E-5**	**5.65E-5**	**3.26E-4**	**1.13E-4**
PCB-057	ug/L	< 2.31E-6 U	< 2.31E-6 U	< 2.31E-6 U	**6.62E-7 J**
PCB-058	ug/L	< 3.01E-6 U	< 3.01E-6 U	< 3.01E-6 U	< 4.99E-6 U
PCB-061/070	ug/L	**1.61E-4**	**1.10E-4**	**6.75E-4**	**2.54E-4**
PCB-062	ug/L	< 1.98E-6 U	< 1.98E-6 U	< 1.98E-6 U	< 4.99E-6 U
PCB-063	ug/L	**3.23E-6 J**	**2.21E-6 J**	**1.27E-5**	**4.74E-6 J**
PCB-065	ug/L	< 2.61E-6 U	< 2.61E-6 U	< 2.61E-6 U	< 4.99E-6 U
PCB-066/076	ug/L	**9.31E-5**	**6.10E-5**	**3.86E-4**	**1.37E-4**
PCB-067	ug/L	**2.63E-6 J**	**1.83E-6 J**	**1.10E-5**	**4.71E-6 J**
PCB-068	ug/L	**1.72E-6 J**	**8.61E-7 J**	**3.57E-6 J**	**7.85E-7 J**
PCB-073	ug/L	< 1.69E-6 U	< 1.69E-6 U	< 1.69E-6 U	< 4.99E-6 U
PCB-074	ug/L	**4.84E-5**	**3.25E-5**	**1.97E-4**	**6.92E-5**
PCB-077	ug/L	**2.28E-5**	**1.93E-5**	**1.24E-4**	**4.59E-5**
PCB-078	ug/L	< 1.95E-6 U	< 1.95E-6 U	< 1.95E-6 U	< 4.99E-6 U
PCB-079	ug/L	**3.82E-6 J**	**3.85E-6 J**	**1.32E-5**	**5.67E-6**
PCB-080	ug/L	< 2.47E-6 U	< 2.47E-6 U	< 2.47E-6 U	< 4.99E-6 U
PCB-081	ug/L	**1.79E-6 J**	**2.12E-6 J**	**8.90E-6**	**2.77E-6 J**
PCB-082	ug/L	**5.19E-5**	**4.16E-5**	**2.08E-4**	**7.94E-5**

Table I.6.E Individual PCB Aroclors and Congeners in Storwmater

South Park Marina Site, Seattle, Washington

Location		SWRX-MID			
Sample Date		04/12/17	05/16/17	06/08/17	09/19/17
Sample		SPM-SWRX-MID-SW-20170412	SPM-SWRX-MID-SW-20170516	SPM-SWRX-MID-SW-20170608	SPM-SWRX-MID-SW-20170919
Analyte	Unit				
PCB-083	ug/L	< 1.16E-6 U	< 1.16E-6 U	< 1.16E-6 U	< 4.99E-6 U
PCB-084/092	ug/L	**1.03E-4**	**9.73E-5**	**4.45E-4**	**1.90E-4**
PCB-085/116	ug/L	**4.84E-5**	**4.14E-5**	**2.06E-4**	**8.40E-5**
PCB-086	ug/L	**1.90E-6 J**	< 3.08E-6 U	**5.57E-6**	< 4.99E-6 U
PCB-087/117/125	ug/L	**1.18E-4**	**1.07E-4**	**5.12E-4**	**2.14E-4**
PCB-088/091	ug/L	**2.46E-5**	**2.50E-5**	**1.23E-4**	**5.24E-5**
PCB-089	ug/L	**2.82E-6 J**	**2.76E-6 J**	**1.30E-5**	**5.06E-6**
PCB-090/101	ug/L	**2.55E-4**	**2.46E-4**	**1.17E-3**	**4.71E-4**
PCB-093	ug/L	< 1.86E-6 U	< 1.86E-6 U	< 1.86E-6 U	< 4.99E-6 U
PCB-094	ug/L	< 2.17E-6 U	< 2.17E-6 U	**3.74E-6 J**	**1.58E-6 J**
PCB-095/098/102	ug/L	**1.53E-4**	**1.54E-4**	**7.60E-4**	**3.33E-4**
PCB-096	ug/L	**1.10E-6 J**	**1.38E-6 J**	**6.20E-6**	**2.39E-6 J**
PCB-097	ug/L	**8.46E-5**	**7.90E-5**	**3.66E-4**	**1.54E-4**
PCB-099	ug/L	**9.52E-5**	**8.94E-5**	**4.22E-4**	**1.76E-4**
PCB-100	ug/L	< 1.54E-6 U	< 1.54E-6 U	**2.10E-6 J**	< 4.99E-6 U
PCB-103	ug/L	**6.80E-7 J**	< 1.72E-6 U	**4.67E-6 J**	**1.71E-6 J**
PCB-104	ug/L	< 1.42E-6 U	< 1.42E-6 U	< 1.42E-6 U	< 4.99E-6 U
PCB-105	ug/L	**1.57E-4**	**1.11E-4**	**6.29E-4**	**2.47E-4**
PCB-106/118	ug/L	**2.90E-4**	**2.49E-4**	**1.27E-3**	**4.85E-4**
PCB-107/109	ug/L	**2.11E-5**	**1.90E-5**	**9.39E-5**	**3.46E-5**
PCB-108/112	ug/L	**1.18E-5**	**1.13E-5**	**5.07E-5**	**2.03E-5**
PCB-110	ug/L	**3.45E-4**	**3.27E-4**	**1.52E-3**	**6.71E-4**
PCB-111/115	ug/L	**3.30E-6 J**	**4.32E-6 J**	**1.93E-5**	**7.17E-6 J**
PCB-113	ug/L	< 3.03E-6 U	< 3.03E-6 U	**7.51E-6**	< 4.99E-6 U
PCB-114	ug/L	**9.10E-6**	**6.85E-6**	**3.41E-5**	**1.32E-5**
PCB-119	ug/L	**2.98E-6 J**	**2.93E-6 J**	**1.45E-5**	**5.61E-6**
PCB-120	ug/L	**7.78E-7 J**	< 1.82E-6 U	**3.45E-6 J**	**1.38E-6 J**
PCB-121	ug/L	< 4.01E-6 U	< 4.01E-6 U	< 4.01E-6 U	< 4.99E-6 U
PCB-122	ug/L	**4.82E-6 J**	**2.81E-6 J**	**1.94E-5**	**6.32E-6**
PCB-123	ug/L	**4.95E-6 J**	**4.26E-6 J**	**2.28E-5**	**8.51E-6**
PCB-124	ug/L	**1.49E-5**	**1.38E-5**	**6.85E-5**	**2.62E-5**
PCB-126	ug/L	**7.12E-6**	**5.08E-6**	**3.15E-5**	**1.06E-5**
PCB-127	ug/L	< 1.02E-6 U	< 1.02E-6 U	< 1.02E-6 U	< 4.99E-6 U
PCB-128/162	ug/L	**6.61E-5**	**6.16E-5**	**2.97E-4**	**1.11E-4**
PCB-129	ug/L	**2.39E-5**	**2.07E-5**	**9.85E-5**	**3.84E-5**
PCB-130	ug/L	**2.85E-5**	**2.91E-5**	**1.30E-4**	**4.80E-5**
PCB-131	ug/L				
PCB-131/133	ug/L	**1.15E-5**	**1.01E-5**	**5.09E-5**	**1.83E-5**
PCB-132/161	ug/L	**1.18E-4**	**1.10E-4**	**5.21E-4**	**2.02E-4**
PCB-133/142	ug/L				
PCB-134/143	ug/L	**2.14E-5**	**1.82E-5**	**9.12E-5**	**3.33E-5**
PCB-135	ug/L	**3.69E-5**	**4.30E-5**	**1.94E-4**	**8.88E-5**
PCB-136	ug/L	< 1.63E-6 U	**3.42E-5**	**1.77E-4**	**6.77E-5**
PCB-137	ug/L	**2.02E-5**	**1.62E-5**	**8.72E-5**	**3.58E-5**
PCB-138/163/164	ug/L	**4.46E-4**	**4.16E-4**	**2.08E-3**	**7.51E-4**
PCB-139/149	ug/L	**2.10E-4**	**2.70E-4**	**1.18E-3**	**5.16E-4**
PCB-140	ug/L	**2.00E-6 J**	< 2.14E-6 U	**8.12E-6**	**3.57E-6 J**
PCB-141	ug/L	**8.73E-5**	**7.95E-5**	**4.26E-4**	**1.45E-4**
PCB-142	ug/L	< 1.21E-6 U	< 1.49E-6 U	< 2.57E-6 U	< 4.99E-6 U
PCB-144	ug/L	**1.12E-5**	**1.35E-5**	**6.96E-5**	**2.54E-5**
PCB-145	ug/L	< 3.32E-6 U	< 3.32E-6 U	< 3.32E-6 U	< 4.99E-6 U
PCB-146/165	ug/L	**5.67E-5**	**4.98E-5**	**2.58E-4**	**9.27E-5**
PCB-147	ug/L	**5.45E-6 J**	**6.73E-6**	**2.40E-5**	**1.26E-5**
PCB-148	ug/L	< 4.82E-6 U	< 4.82E-6 U	< 4.82E-6 U	< 4.99E-6 U
PCB-150	ug/L	< 1.07E-6 U	**8.29E-7 J**	**2.75E-6 J**	**1.01E-6 J**
PCB-151	ug/L	**5.26E-5**	**6.74E-5**	**3.42E-4**	**1.29E-4**
PCB-152	ug/L	< 2.69E-6 U	< 2.69E-6 U	**1.47E-6 J**	< 4.99E-6 U
PCB-153	ug/L	**3.62E-4**	**3.38E-4**	**1.79E-3**	**6.18E-4**
PCB-154	ug/L	**3.07E-6 J**	**4.49E-6 J**	**1.52E-5**	**6.84E-6**
PCB-155	ug/L	< 2.44E-6 U	< 2.44E-6 U	< 2.44E-6 U	< 4.99E-6 U
PCB-156	ug/L	**4.08E-5**	**3.56E-5**	**1.91E-4**	**6.87E-5**
PCB-157	ug/L	**9.50E-6**	**8.80E-6**	**4.44E-5**	**1.67E-5**
PCB-158/160	ug/L	**4.97E-5**	**4.62E-5**	**2.26E-4**	**8.44E-5**
PCB-159	ug/L	< 1.75E-6 U	< 1.75E-6 U	< 1.75E-6 U	< 4.99E-6 U
PCB-166	ug/L	**1.37E-6 J**	**1.39E-6 J**	**5.46E-6**	**2.27E-6 J**
PCB-167	ug/L	**1.95E-5**	**1.88E-5**	**9.25E-5**	**3.34E-5**
PCB-168	ug/L	< 1.04E-6 U	< 1.04E-6 U	< 1.04E-6 U	**8.79E-7 J**
PCB-169	ug/L	< 2.27E-6 U	< 2.27E-6 U	**1.60E-6 J**	< 5.67E-7 U
PCB-170	ug/L	**1.11E-4**	**1.11E-4**	**5.67E-4**	**1.99E-4**
PCB-171	ug/L	**3.04E-5**	**3.17E-5**	**1.60E-4**	**5.07E-5**
PCB-172	ug/L	**2.34E-5**	**2.31E-5**	**1.14E-4**	**3.88E-5**
PCB-173	ug/L	**2.61E-6 J**	**2.58E-6 J**	**1.32E-5**	< 4.99E-6 U
PCB-174	ug/L	**1.42E-4**	**1.32E-4**	**7.44E-4**	**2.23E-4**
PCB-175	ug/L	**5.25E-6 J**	**4.76E-6 J**	**2.72E-5**	**9.94E-6**
PCB-176	ug/L	**1.31E-5**	**1.14E-5**	**6.95E-5**	**2.26E-5**
PCB-177	ug/L	**7.54E-5**	**7.85E-5**	**4.14E-4**	**1.27E-4**

Table I.6.E Individual PCB Aroclors and Congeners in Storwmater

South Park Marina Site, Seattle, Washington

Location		SWRX-MID			
Sample Date		04/12/17	05/16/17	06/08/17	09/19/17
Sample		SPM-SWRX-MID-SW-20170412	SPM-SWRX-MID-SW-20170516	SPM-SWRX-MID-SW-20170608	SPM-SWRX-MID-SW-20170919
Analyte	**Unit**				
PCB-178	ug/L	**2.29E-5**	**2.24E-5**	**1.25E-4**	**4.24E-5**
PCB-179	ug/L	**4.38E-5**	**4.03E-5**	**2.71E-4**	**8.10E-5**
PCB-180	ug/L	**2.95E-4**	**2.98E-4**	**1.60E-3**	**5.24E-4**
PCB-181	ug/L	< 1.85E-6 U	< 1.85E-6 U	< 1.85E-6 U	< 4.99E-6 U
PCB-182/187	ug/L	**1.46E-4**	**1.38E-4**	**7.67E-4**	**2.57E-4**
PCB-183	ug/L	**6.08E-5**	**5.98E-5**	**3.12E-4**	**1.13E-4**
PCB-184	ug/L	< 1.40E-6 U	< 1.40E-6 U	< 1.40E-6 U	< 4.99E-6 U
PCB-185	ug/L	**1.49E-5**	**1.38E-5**	**8.14E-5**	**2.29E-5**
PCB-186	ug/L	< 2.69E-6 U	< 2.69E-6 U	< 2.69E-6 U	< 4.99E-6 U
PCB-188	ug/L	< 1.98E-6 U	**4.67E-7 J**	**1.53E-6 J**	**6.21E-7 J**
PCB-189	ug/L	**4.44E-6 J**	**4.05E-6 J**	**2.20E-5**	**6.82E-6**
PCB-190	ug/L	**2.14E-5**	**2.07E-5**	**1.06E-4**	**3.83E-5**
PCB-191	ug/L	**4.12E-6 J**	**4.66E-6 J**	**2.39E-5**	**8.01E-6**
PCB-192	ug/L	< 1.79E-6 U	< 1.79E-6 U	< 1.79E-6 U	< 4.99E-6 U
PCB-193	ug/L	**1.47E-5**	**1.38E-5**	**7.13E-5**	**2.42E-5**
PCB-194	ug/L	**6.73E-5**	**5.30E-5**	**3.45E-4**	**1.14E-4**
PCB-195	ug/L	**2.59E-5**	**2.36E-5**	**1.37E-4**	**4.39E-5**
PCB-196/203	ug/L	**5.76E-5**	**7.05E-5**	**3.18E-4**	**1.18E-4**
PCB-197	ug/L	**1.70E-6 J**	**2.80E-6 J**	**1.06E-5**	**3.96E-6 J**
PCB-198	ug/L	**1.27E-6 J**	**2.72E-6 J**	**1.29E-5**	**4.66E-6 J**
PCB-199	ug/L	**6.47E-5**	**7.72E-5**	**3.57E-4**	**1.21E-4**
PCB-200	ug/L	< 3.32E-6 U	**7.94E-6**	**4.05E-5**	**1.22E-5**
PCB-201	ug/L	**7.58E-6**	**9.23E-6**	**4.45E-5**	**1.40E-5**
PCB-202	ug/L	**1.25E-5**	**1.22E-5**	**6.60E-5**	**2.02E-5**
PCB-204	ug/L	< 2.47E-6 U	< 2.47E-6 U	< 2.47E-6 U	< 4.99E-6 U
PCB-205	ug/L	< 1.82E-6 U	**1.96E-6 J**	**1.22E-5**	**5.25E-6**
PCB-206	ug/L	**1.45E-5**	**1.14E-5**	**7.04E-5**	**2.42E-5**
PCB-207	ug/L	**1.86E-6 J**	**2.08E-6 J**	**9.96E-6**	**3.42E-6 J**
PCB-208	ug/L	< 8.87E-7 U	**2.93E-6 J**	**1.52E-5**	**5.01E-6**
PCB-209	ug/L	< 2.28E-6 U	**1.19E-5**	**1.23E-5**	**4.79E-6 J**
Total Decachlorobiphenyls	ug/L	< 1.73E-6 U	**1.19E-5**	**1.23E-5**	**4.79E-6**
Total Dichlorobiphenyls	ug/L	**2.40E-4**	**1.49E-4**	**4.70E-4**	**1.97E-4**
Total Heptachlorobiphenyls	ug/L	**1.03E-3**	**1.01E-3**	**5.49E-3**	**1.79E-3**
Total Hexachlorobiphenyls	ug/L	**1.68E-3**	**1.70E-3**	**8.40E-3**	**3.15E-3**
Total Monochlorobiphenyls	ug/L	**2.59E-6**	**2.80E-6**	**2.00E-5**	**8.57E-6**
Total Nonachlorobiphenyls	ug/L	**1.64E-5**	**1.65E-5**	**9.56E-5**	**3.26E-5**
Total Octachlorobiphenyls	ug/L	**2.39E-4**	**2.61E-4**	**1.34E-3**	**4.57E-4**
Total Pentachlorobiphenyls	ug/L	**1.81E-3**	**1.64E-3**	**8.02E-3**	**3.30E-3**
Total Tetrachlorobiphenyls	ug/L	**9.06E-4**	**5.91E-4**	**3.53E-3**	**1.29E-3**
Total Trichlorobiphenyls	ug/L	**4.21E-4**	**1.73E-4**	**1.04E-3**	**3.79E-4**
Total PCB Congeners (ND = 0)	ug/L	**6.35E-3 J**	**5.56E-3 J**	**2.84E-2 J**	**1.06E-2 J**
Total PCB TEQ (ND = 0)	ug/L	**7.22E-7 J**	**5.16E-7 J**	**3.24E-6 J**	**1.08E-6 J**

Notes:

Bold = detected

mg/kg = milligrams per kilogram

U = Analyte not detected at or above the RDL shown

J = Result value estimated

UJ = Analyte not detected, and the RDL shown is an estimate

(ND = 0) = calculated using zero for nondetected components

TEQ = Toxic Equivalency

A = One or more of the nine common Aroclor groups (1016, 1221, 1232, 1242, 1248, 1254, 1260, 1262, and 1268) were not reported, and the Total PCB Aroclors (ND = 0) sum assumes the missing components were nondetect.

Total PCB Aroclors (ND = 0) are the sum of Aroclors available, with nondetects = 0, unless all Aroclors were not detected, in which case the Total PCB Aroclors concentration is shown as nondetect at the maximum RDL for any individual Aroclor.

RDL = Reported Detection Limit

Table I.6.E Individual PCB Aroclors and Congeners in Storwmater

South Park Marina Site, Seattle, Washington

Location		SWRX-POST							
Sample Date		04/12/17	05/16/17	06/08/17	09/19/17	10/18/17	11/03/17	11/22/22	12/01/16
Sample		SPM-SWRX-POST-SW-20170412	SPM-SWRX-POST-SW-20170516	SPM-SWRX-POST-SW-20170608	SPM-SWRX-POST-SW-20170919	SPM-SWRX-POST-SW-20171018	SPM-SWRX-POST-SW-20171103	SWRX-POST-SW-221122	SPM-SWRX-POST-SW-20161201
Analyte	**Unit**								
Polychlorinated Biphenyl Aroclors									
Aroclor 1016	ug/L	< 0.05 U	< 0.047 U	< 0.048 U	< 0.048 U	< 0.047 U	< 0.048 U	< 0.05 U	< 0.0994 U
Aroclor 1221	ug/L	< 0.05 U	< 0.047 U	< 0.048 U	< 0.048 U	< 0.047 U	< 0.048 U	< 0.05 U	< 0.0994 U
Aroclor 1232	ug/L	< 0.05 U	< 0.047 U	< 0.048 U	< 0.048 U	< 0.047 U	< 0.048 U	< 0.05 U	< 0.0994 U
Aroclor 1242	ug/L	< 0.05 U	< 0.047 U	< 0.048 U	< 0.048 U	< 0.047 U	< 0.048 U	< 0.05 U	< 0.0994 U
Aroclor 1248	ug/L	< 0.05 U	< 0.047 U	< 0.048 U	< 0.048 U	< 0.047 U	< 0.048 U	< 0.05 U	< 0.0994 U
Aroclor 1254	ug/L	< 0.05 U	< 0.047 U	< 0.048 U	< 0.048 U	< 0.047 U	< 0.048 U	< 0.05 U	< 0.0994 U
Aroclor 1260	ug/L	< 0.05 U	< 0.047 U	< 0.048 U	< 0.048 U	< 0.047 U	< 0.048 U	< 0.05 U	< 0.0994 U
Aroclor 1262	ug/L							< 0.05 U	
Aroclor 1268	ug/L							< 0.05 U	
Total PCB Aroclors (ND = 0)	ug/L	< 0.05 UA	< 0.047 UA	< 0.048 UA	< 0.048 UA	< 0.047 UA	< 0.048 UA	< 0.05 U	< 0.0994 UA
Polychlorinated Biphenyl Congeners									
PCB-001	ug/L	< 1.30E-6 U	< 1.30E-6 U	< 1.30E-6 U	< 4.98E-6 U	< 4.84E-6 U	< 4.76E-6 U		< 1.30E-6 U
PCB-002	ug/L	< 1.57E-6 U	< 1.57E-6 U	< 1.57E-6 U	< 4.98E-6 U	< 4.84E-6 U	< 4.76E-6 U		< 1.57E-6 U
PCB-003	ug/L	< 1.36E-6 U	< 1.36E-6 U	< 1.36E-6 U	< 4.98E-6 U	< 4.84E-6 U	< 4.76E-6 U		< 1.36E-6 U
PCB-004/010	ug/L	< 2.27E-6 U	< 2.27E-6 U	< 2.27E-6 U	< 9.96E-6 U	< 9.69E-6 U	< 9.51E-6 U		< 2.27E-6 U
PCB-005/008	ug/L	< 2.05E-6 U	< 2.05E-6 U	< 2.05E-6 U	< 9.96E-6 U	< 9.69E-6 U	< 9.51E-6 U		< 2.05E-6 U
PCB-006	ug/L	< 1.71E-6 U	< 1.71E-6 U	< 1.71E-6 U	< 4.98E-6 U	< 4.84E-6 U	< 4.76E-6 U		< 1.71E-6 U
PCB-007/009	ug/L	< 2.31E-6 U	< 2.31E-6 U	< 2.31E-6 U	< 9.96E-6 U	< 9.69E-6 U	< 9.51E-6 U		< 2.31E-6 U
PCB-011	ug/L	**1.13E-5**	**1.79E-5**	**9.22E-6**	< 4.98E-6 U	**2.77E-5**	**7.56E-6**		< 6.05E-6 U
PCB-012/013	ug/L	< 3.65E-6 U	< 3.65E-6 U	< 3.65E-6 U	< 9.96E-6 U	< 9.69E-6 U	< 9.51E-6 U		< 3.65E-6 U
PCB-014	ug/L	< 1.44E-6 U	< 1.44E-6 U	< 1.44E-6 U	< 4.98E-6 U	< 4.84E-6 U	< 4.76E-6 U		< 1.44E-6 U
PCB-015	ug/L	< 1.12E-6 U	< 1.12E-6 U	< 1.12E-6 U	< 4.98E-6 U	< 4.84E-6 U	< 4.76E-6 U		< 1.12E-6 U
PCB-016/032	ug/L	**2.46E-6 J**	< 1.90E-6 U	**2.29E-6**	< 9.96E-6 U	**4.45E-6 J**	< 9.51E-6 U		< 1.90E-6 U
PCB-017	ug/L	**1.12E-6 J**	**1.53E-6 J**	< 1.48E-6 U	< 4.98E-6 U	< 4.84E-6 U	< 4.76E-6 U		< 1.48E-6 U
PCB-018	ug/L	**2.96E-6 J**	**5.21E-6**	< 1.97E-6 U	**1.78E-6 J**	**5.64E-6**	< 4.76E-6 U		< 1.97E-6 U
PCB-019	ug/L	< 1.55E-6 U	< 1.55E-6 U	< 1.55E-6 U	< 4.98E-6 U	< 4.84E-6 U	< 4.76E-6 U		< 1.55E-6 U
PCB-020/021/033	ug/L	**1.97E-6 J**	< 7.79E-6 U	< 7.79E-6 U	< 1.49E-5 U	**4.23E-6 J**	< 1.43E-5 U		< 7.79E-6 U
PCB-022	ug/L	**1.17E-6 J**	**9.19E-7 J**	**1.48E-6 J**	**1.02E-6 J**	**3.23E-6 J**	< 4.76E-6 U		< 2.78E-6 U
PCB-023	ug/L	< 3.00E-6 U	< 3.00E-6 U	< 3.00E-6 U	< 4.98E-6 U	< 4.84E-6 U	< 4.76E-6 U		< 3.00E-6 U
PCB-024/027	ug/L	< 3.15E-6 U	< 3.15E-6 U	< 3.15E-6 U	< 9.96E-6 U	< 9.69E-6 U	< 9.51E-6 U		< 3.15E-6 U
PCB-025	ug/L	< 2.64E-6 U	< 2.64E-6 U	< 2.64E-6 U	< 4.98E-6 U	< 4.84E-6 U	< 4.76E-6 U		< 2.64E-6 U
PCB-026	ug/L	< 2.45E-6 U	< 2.45E-6 U	< 2.45E-6 U	< 4.98E-6 U	< 4.84E-6 U	< 4.76E-6 U		< 2.45E-6 U
PCB-028	ug/L	**3.05E-6 J**	**2.39E-6 J**	**2.65E-6 J**	**2.32E-6 J**	**6.32E-6**	< 4.76E-6 U		< 3.36E-6 U
PCB-029	ug/L	< 1.92E-6 U	< 1.92E-6 U	< 1.92E-6 U	< 4.98E-6 U	< 4.84E-6 U	< 4.76E-6 U		< 1.92E-6 U
PCB-030	ug/L	< 1.66E-6 U	< 1.66E-6 U	< 1.66E-6 U	< 4.98E-6 U	< 4.84E-6 U	< 4.76E-6 U		< 1.66E-6 U
PCB-031	ug/L	**2.81E-6 J**	**1.82E-6 J**	**1.98E-6 J**	**2.11E-6 J**	**5.84E-6**	< 4.76E-6 U		< 2.42E-6 U
PCB-034	ug/L	< 1.08E-6 U	< 1.08E-6 U	< 1.08E-6 U	< 4.98E-6 U	< 4.84E-6 U	< 4.76E-6 U		< 1.08E-6 U
PCB-035	ug/L	< 2.14E-6 U	< 2.14E-6 U	**8.14E-7 J**	< 4.98E-6 U	< 4.84E-6 U	< 4.76E-6 U		< 2.14E-6 U
PCB-036	ug/L	< 2.02E-6 U	< 2.02E-6 U	< 2.02E-6 U	< 4.98E-6 U	< 4.84E-6 U	< 4.76E-6 U		< 2.02E-6 U
PCB-037	ug/L	**1.44E-6 J**	< 1.71E-6 U	**1.74E-6 J**	**1.72E-6 J**	**5.27E-6**	< 4.76E-6 U		< 1.71E-6 U
PCB-038	ug/L	< 1.97E-6 U	< 1.97E-6 U	**2.65E-6 J**	< 4.98E-6 U	< 4.84E-6 U	< 4.76E-6 U		< 1.97E-6 U
PCB-039	ug/L	< 2.21E-6 U	< 2.21E-6 U	< 2.21E-6 U	< 4.98E-6 U	< 4.84E-6 U	< 4.76E-6 U		< 2.21E-6 U
PCB-040	ug/L	**1.53E-6 J**	**1.70E-6 J**	**2.43E-6 J**	**1.51E-6 J**	**3.95E-6 J**	< 4.76E-6 U		< 2.65E-6 U
PCB-041/064/071/072	ug/L	**6.64E-6 J**	**7.10E-6 J**	**9.70E-6 J**	**6.42E-6 J**	**2.00E-5**	**6.16E-6 J**		**5.88E-6 J**
PCB-042/059	ug/L	**2.27E-6 J**	**2.22E-6 J**	**3.06E-6 J**	**2.13E-6 J**	**5.83E-6 J**	**2.13E-6 J**		**2.15E-6 J**
PCB-043/049	ug/L	**4.67E-6 J**	**5.75E-6 J**	**8.00E-6 J**	**4.75E-6 J**	**1.66E-5**	**3.75E-6 J**		**4.41E-6 J**
PCB-044	ug/L	**7.46E-6**	**7.93E-6**	**1.24E-5**	**7.34E-6**	**2.54E-5**	**6.85E-6**		**5.65E-6**
PCB-045	ug/L	**1.08E-6 J**	**1.12E-6 J**	**1.82E-6 J**	**1.51E-6 J**	< 4.84E-6 U	< 4.76E-6 U		**1.56E-6 J**
PCB-046	ug/L	**6.49E-7 J**	**9.01E-7 J**	< 1.79E-6 U	**1.02E-6 J**	< 4.84E-6 U	< 4.76E-6 U		< 1.79E-6 U
PCB-047	ug/L	**3.97E-6 J**	**8.75E-6**	**6.83E-5**	**3.47E-6 J**	**6.75E-6**	**4.91E-6**		**2.91E-6 J**
PCB-048/075	ug/L	**9.45E-7 J**	**9.18E-7 J**	**7.97E-7 J**	**8.14E-7 J**	**2.92E-6 J**	< 9.51E-6 U		< 4.61E-6 U
PCB-050	ug/L	< 1.91E-6 U	< 1.91E-6 U	< 1.91E-6 U	< 4.98E-6 U	< 4.84E-6 U	< 4.76E-6 U		< 1.91E-6 U
PCB-051	ug/L	**9.71E-7 J**	**1.86E-6 J**	**1.37E-5**	< 4.98E-6 U	< 4.84E-6 U	**1.14E-6 J**		< 1.36E-6 U
PCB-052/069	ug/L	**9.50E-6 J**	**1.20E-5**	**1.74E-5**	**1.25E-5**	**3.88E-5**	**1.10E-5**		**1.00E-5**
PCB-053	ug/L	< 2.19E-6 U	< 2.19E-6 U	**2.82E-6 J**	< 4.98E-6 U	**3.17E-6 J**	**1.31E-6 J**		**2.22E-6 J**
PCB-054	ug/L	< 2.17E-6 U	< 2.17E-6 U	< 2.17E-6 U	< 4.98E-6 U	< 4.84E-6 U	< 4.76E-6 U		< 2.17E-6 U
PCB-055	ug/L	< 2.10E-6 U	**3.30E-7 J**	< 2.10E-6 U	< 4.98E-6 U	< 4.84E-6 U	< 4.76E-6 U		< 2.10E-6 U
PCB-056/060	ug/L	**4.50E-6 J**	**5.21E-6 J**	**7.19E-6 J**	**4.82E-6 J**	**2.39E-5**	**4.77E-6 J**		**2.47E-6 J**
PCB-057	ug/L	< 2.31E-6 U	< 2.31E-6 U	< 2.31E-6 U	< 4.98E-6 U	< 4.84E-6 U	< 4.76E-6 U		< 2.31E-6 U
PCB-058	ug/L	< 3.01E-6 U	< 3.01E-6 U	< 3.01E-6 U	< 4.98E-6 U	< 4.84E-6 U	< 4.76E-6 U		< 3.01E-6 U
PCB-061/070	ug/L	**8.95E-6 J**	**1.07E-5**	**1.47E-5**	**9.72E-6 J**	**4.95E-5**	**8.46E-6 J**		**4.61E-6 J**
PCB-062	ug/L	< 1.98E-6 U	< 1.98E-6 U	< 1.98E-6 U	< 4.98E-6 U	< 4.84E-6 U	< 4.76E-6 U		< 1.98E-6 U
PCB-063	ug/L	< 1.52E-6 U	< 1.52E-6 U	< 1.52E-6 U	< 4.98E-6 U	< 4.84E-6 U	< 4.76E-6 U		< 1.52E-6 U
PCB-065	ug/L	< 2.61E-6 U	< 2.61E-6 U	< 2.61E-6 U	< 4.98E-6 U	< 4.84E-6 U	< 4.76E-6 U		< 2.61E-6 U
PCB-066/076	ug/L	**5.71E-6 J**	**7.76E-6 J**	**1.02E-5**	**6.40E-6 J**	**2.86E-5**	**5.60E-6 J**		**3.08E-6 J**
PCB-067	ug/L	< 2.69E-6 U	< 2.69E-6 U	< 2.69E-6 U	< 4.98E-6 U	< 4.84E-6 U	< 4.76E-6 U		< 2.69E-6 U
PCB-068	ug/L	**5.38E-7 J**	**9.40E-7 J**	**1.16E-5**	**3.85E-7 J**	< 4.84E-6 U	< 4.76E-6 U		< 2.49E-6 U
PCB-073	ug/L	< 1.69E-6 U	< 1.69E-6 U	< 1.69E-6 U	< 4.98E-6 U	< 4.84E-6 U	< 4.76E-6 U		< 1.69E-6 U
PCB-074	ug/L	**2.53E-6 J**	**3.43E-6 J**	**4.51E-6 J**	**3.07E-6 J**	**1.38E-5**	**2.49E-6 J**		**1.51E-6 J**
PCB-077	ug/L	**1.69E-6 J**	**2.10E-6 J**	**3.43E-6 J**	**2.41E-6 J**	**1.19E-5**	**2.57E-6 J**		< 2.76E-6 U
PCB-078	ug/L	< 1.95E-6 U	< 1.95E-6 U	< 1.95E-6 U	< 4.98E-6 U	< 4.84E-6 U	< 4.76E-6 U		< 1.95E-6 U
PCB-079	ug/L	< 2.34E-6 U	**5.97E-7 J**	< 2.34E-6 U	**5.85E-7 J**	**1.10E-6 J**	< 4.76E-6 U		< 2.34E-6 U
PCB-080	ug/L	< 2.47E-6 U	< 2.47E-6 U	< 2.47E-6 U	< 4.98E-6 U	< 4.84E-6 U	< 4.76E-6 U		< 2.47E-6 U
PCB-081	ug/L	< 2.76E-6 U	**2.33E-7 J**	< 2.76E-6 U	**2.80E-7 J**	< 4.84E-6 U	< 4.76E-6 U		< 2.76E-6 U
PCB-082	ug/L	**4.99E-6**	**6.03E-6**	**1.10E-5**	**7.68E-6**	**1.97E-5**	**5.99E-6**		**2.22E-6 J**

Table I.6.E Individual PCB Aroclors and Congeners in Storwmater

South Park Marina Site, Seattle, Washington

Location		SWRX-POST							
Sample Date		04/12/17	05/16/17	06/08/17	09/19/17	10/18/17	11/03/17	11/22/22	12/01/16
Sample		SPM-SWRX-POST-SW-20170412	SPM-SWRX-POST-SW-20170516	SPM-SWRX-POST-SW-20170608	SPM-SWRX-POST-SW-20170919	SPM-SWRX-POST-SW-20171018	SPM-SWRX-POST-SW-20171103	SWRX-POST-SW-221122	SPM-SWRX-POST-SW-20161201
Analyte	**Unit**								
PCB-083	ug/L	< 1.16E-6 U	< 1.16E-6 U	< 1.16E-6 U	< 4.98E-6 U	< 4.84E-6 U	< 4.76E-6 U		< 1.16E-6 U
PCB-084/092	ug/L	**1.52E-5**	**1.80E-5**	**3.01E-5**	**2.65E-5**	**5.76E-5**	**1.92E-5**		**1.00E-5**
PCB-085/116	ug/L	**4.51E-6 J**	**6.60E-6 J**	**1.04E-5**	**8.21E-6 J**	**2.41E-5**	**5.99E-6 J**		**1.92E-6 J**
PCB-086	ug/L	< 3.08E-6 U	< 3.08E-6 U	< 3.08E-6 U	< 4.98E-6 U	< 4.84E-6 U	< 4.76E-6 U		< 3.08E-6 U
PCB-087/117/125	ug/L	**9.98E-6 J**	**1.46E-5**	**2.18E-5**	**1.71E-5**	**5.98E-5**	**1.70E-5**		**5.16E-6 J**
PCB-088/091	ug/L	**4.32E-6 J**	**5.93E-6**	**9.93E-6**	**8.32E-6**	**1.99E-5**	**5.66E-6**		**3.77E-6 J**
PCB-089	ug/L	< 1.55E-6 U	< 1.55E-6 U	**8.99E-7 J**	< 4.98E-6 U	**1.72E-6 J**	< 4.76E-6 U		< 1.55E-6 U
PCB-090/101	ug/L	**2.73E-5**	**3.81E-5**	**5.98E-5**	**4.60E-5**	**1.39E-4**	**3.87E-5**		**1.72E-5**
PCB-093	ug/L	< 1.86E-6 U	< 1.86E-6 U	< 1.86E-6 U	< 4.98E-6 U	< 4.84E-6 U	< 4.76E-6 U		< 1.86E-6 U
PCB-094	ug/L	< 2.17E-6 U	< 2.17E-6 U	< 2.17E-6 U	< 4.98E-6 U	< 4.84E-6 U	< 4.76E-6 U		< 2.17E-6 U
PCB-095/098/102	ug/L	**2.63E-5**	**3.54E-5**	**5.64E-5**	**5.30E-5**	**1.00E-4**	**3.62E-5**		**2.11E-5**
PCB-096	ug/L	< 1.13E-6 U	< 1.13E-6 U	< 1.13E-6 U	< 4.98E-6 U	< 4.84E-6 U	< 4.76E-6 U		< 1.13E-6 U
PCB-097	ug/L	**8.72E-6**	**1.26E-5**	**1.82E-5**	**1.41E-5**	**4.60E-5**	**1.11E-5**		**4.62E-6 J**
PCB-099	ug/L	**9.64E-6**	**1.35E-5**	**2.13E-5**	**1.71E-5**	**4.60E-5**	**1.19E-5**		**5.66E-6**
PCB-100	ug/L	< 1.54E-6 U	< 1.54E-6 U	< 1.54E-6 U	< 4.98E-6 U	< 4.84E-6 U	< 4.76E-6 U		< 1.54E-6 U
PCB-103	ug/L	< 1.72E-6 U	< 1.72E-6 U	< 1.72E-6 U	< 4.98E-6 U	< 4.84E-6 U	< 4.76E-6 U		< 1.72E-6 U
PCB-104	ug/L	< 1.42E-6 U	< 1.42E-6 U	< 1.42E-6 U	< 4.98E-6 U	< 4.84E-6 U	< 4.76E-6 U		< 1.42E-6 U
PCB-105	ug/L	**1.26E-5**	**1.47E-5**	**2.36E-5**	**1.88E-5**	**6.47E-5**	**1.33E-5**		**3.02E-6 J**
PCB-106/118	ug/L	**2.23E-5**	**3.22E-5**	**5.17E-5**	**3.96E-5**	**1.42E-4**	**3.02E-5**		**8.21E-6 J**
PCB-107/109	ug/L	**2.05E-6 J**	**2.73E-6 J**	**3.80E-6 J**	< 3.33E-6 U	**1.13E-5**	**1.93E-6 J**		< 2.07E-6 U
PCB-108/112	ug/L	**1.68E-6 J**	**2.18E-6 J**	**4.02E-6 J**	**2.68E-6 J**	**6.56E-6 J**	< 9.51E-6 U		< 3.49E-6 U
PCB-110	ug/L	**4.12E-5**	**5.69E-5**	**9.15E-5**	**8.02E-5**	**2.11E-4**	**5.68E-5**		**2.41E-5**
PCB-111/115	ug/L	**5.32E-7 J**	**6.91E-7 J**	**5.34E-7 J**	**5.23E-7 J**	**1.88E-6 J**	< 9.51E-6 U		< 3.35E-6 U
PCB-113	ug/L	< 3.03E-6 U	< 3.03E-6 U	< 3.03E-6 U	< 4.98E-6 U	< 4.84E-6 U	< 4.76E-6 U		< 3.03E-6 U
PCB-114	ug/L	**6.17E-7 J**	< 2.84E-6 U	**1.59E-6 J**	< 4.98E-6 U	**2.73E-6 J**	< 4.76E-6 U		< 2.84E-6 U
PCB-119	ug/L	< 1.57E-6 U	**6.50E-7 J**	**9.62E-7 J**	**6.87E-7 J**	< 4.84E-6 U	< 4.76E-6 U		< 1.57E-6 U
PCB-120	ug/L	< 1.82E-6 U	< 1.82E-6 U	< 1.82E-6 U	< 4.98E-6 U	**8.37E-7 J**	< 4.76E-6 U		< 1.82E-6 U
PCB-121	ug/L	< 4.01E-6 U	< 4.01E-6 U	< 4.01E-6 U	< 4.98E-6 U	< 4.84E-6 U	< 4.76E-6 U		< 4.01E-6 U
PCB-122	ug/L	< 3.56E-6 U	< 3.56E-6 U	< 3.56E-6 U	< 4.98E-6 U	**1.81E-6 J**	< 4.76E-6 U		< 3.56E-6 U
PCB-123	ug/L	**6.36E-7 J**	**9.66E-7 J**	**1.24E-6 J**	< 4.98E-6 U	**2.55E-6 J**	**1.14E-6 J**		< 1.93E-6 U
PCB-124	ug/L	**1.52E-6 J**	**2.17E-6 J**	**3.70E-6 J**	**3.14E-6 J**	**8.79E-6**	< 4.76E-6 U		< 2.40E-6 U
PCB-126	ug/L	**7.75E-7 J**	**8.30E-7 J**	**1.35E-6 J**	< 4.98E-6 U	**3.57E-6 J**	< 4.76E-6 U		< 7.93E-7 U
PCB-127	ug/L	< 1.02E-6 U	< 1.02E-6 U	< 1.02E-6 U	< 4.98E-6 U	< 4.84E-6 U	< 4.76E-6 U		< 1.02E-6 U
PCB-128/162	ug/L	**9.97E-6**	**1.23E-5**	**2.14E-5**	**1.78E-5**	**4.24E-5**	**1.13E-5**		**3.21E-6 J**
PCB-129	ug/L	**3.11E-6 J**	**4.31E-6 J**	**7.33E-6**	**5.77E-6**	**1.52E-5**	< 4.76E-6 U		< 2.41E-6 U
PCB-130	ug/L	**4.80E-6 J**	**6.12E-6**	**1.08E-5**	**9.27E-6**	**2.05E-5**	**5.69E-6**		< 7.64E-7 U
PCB-131	ug/L								< 1.65E-6 U
PCB-131/133	ug/L	**2.26E-6 J**	**2.34E-6 J**	**4.17E-6 J**	**3.55E-6 J**	< 9.69E-6 U	**1.59E-6 J**		
PCB-132/161	ug/L	**1.85E-5**	**2.55E-5**	**4.08E-5**	**3.74E-5**	**7.39E-5**	**2.17E-5**		**6.89E-6 J**
PCB-133/142	ug/L								< 2.56E-6 U
PCB-134/143	ug/L	**3.16E-6 J**	**4.38E-6 J**	**8.06E-6 J**	**6.40E-6 J**	**1.20E-5**	**3.06E-6 J**		**1.59E-6 J**
PCB-135	ug/L	**5.85E-6**	**9.35E-6**	**1.71E-5**	**1.60E-5**	**3.30E-5**	**7.35E-6**		**5.12E-6**
PCB-136	ug/L	**5.29E-6**	**9.68E-6**	**1.50E-5**	**1.37E-5**	**2.77E-5**	< 4.76E-6 U		**5.33E-6**
PCB-137	ug/L	**2.82E-6 J**	**3.93E-6 J**	**6.21E-6**	**5.56E-6**	**1.34E-5**	**3.02E-6 J**		< 1.59E-6 U
PCB-138/163/164	ug/L	**6.45E-5**	**8.11E-5**	**1.37E-4**	**1.21E-4**	**2.98E-4**	**7.62E-5**		**1.90E-5**
PCB-139/149	ug/L	**3.96E-5**	**6.12E-5**	**9.88E-5**	**1.03E-4**	**1.95E-4**	**6.36E-5**		**2.52E-5**
PCB-140	ug/L	< 2.14E-6 U	< 2.14E-6 U	< 2.14E-6 U	< 4.98E-6 U	**2.11E-6 J**	< 4.76E-6 U		< 2.14E-6 U
PCB-141	ug/L	**1.30E-5**	**1.69E-5**	**2.82E-5**	**2.47E-5**	**5.96E-5**	**1.56E-5**		**4.41E-6 J**
PCB-142	ug/L	< 6.89E-7 U	< 6.23E-7 U	< 9.74E-7 U	< 4.98E-6 U	< 4.84E-6 U	< 4.76E-6 U		
PCB-144	ug/L	**2.44E-6 J**	**3.80E-6 J**	**5.35E-6**	**6.24E-6**	< 4.84E-6 U	< 4.76E-6 U		< 4.16E-6 U
PCB-145	ug/L	< 3.32E-6 U	< 3.32E-6 U	< 3.32E-6 U	< 4.98E-6 U	< 4.84E-6 U	< 4.76E-6 U		< 3.32E-6 U
PCB-146/165	ug/L	**9.22E-6 J**	**1.14E-5**	**1.88E-5**	**1.65E-5**	**3.72E-5**	**1.14E-5**		**2.40E-6 J**
PCB-147	ug/L	< 4.01E-6 U	**1.48E-6 J**	< 4.01E-6 U	**2.21E-6 J**	**5.18E-6**	< 4.76E-6 U		< 4.01E-6 U
PCB-148	ug/L	< 4.82E-6 U	< 4.82E-6 U	< 4.82E-6 U	< 4.98E-6 U	< 4.84E-6 U	< 4.76E-6 U		< 4.82E-6 U
PCB-150	ug/L	< 1.07E-6 U	< 1.07E-6 U	< 1.07E-6 U	< 4.98E-6 U	< 4.84E-6 U	< 4.76E-6 U		< 1.07E-6 U
PCB-151	ug/L	**1.08E-5**	**1.61E-5**	**2.72E-5**	**2.80E-5**	**5.13E-5**	**1.65E-5**		**9.51E-6**
PCB-152	ug/L	< 2.69E-6 U	< 2.69E-6 U	< 2.69E-6 U	< 4.98E-6 U	< 4.84E-6 U	< 4.76E-6 U		< 2.69E-6 U
PCB-153	ug/L	**5.94E-5**	**6.99E-5**	**1.20E-4**	**1.06E-4**	**2.47E-4**	**6.42E-5**		**1.77E-5**
PCB-154	ug/L	< 4.28E-6 U	**8.95E-7 J**	< 4.28E-6 U	< 4.98E-6 U	**2.87E-6 J**	< 4.76E-6 U		< 4.28E-6 U
PCB-155	ug/L	< 2.44E-6 U	< 2.44E-6 U	< 2.44E-6 U	< 4.98E-6 U	< 4.84E-6 U	< 4.76E-6 U		< 2.44E-6 U
PCB-156	ug/L	**5.16E-6**	**5.90E-6**	**1.01E-5**	**8.44E-6**	**2.56E-5**	**5.63E-6**		< 1.76E-6 U
PCB-157	ug/L	**1.64E-6 J**	**1.73E-6 J**	**3.01E-6 J**	**2.93E-6 J**	**6.47E-6**	**1.28E-6 J**		< 1.14E-6 U
PCB-158/160	ug/L	**7.26E-6 J**	**9.29E-6 J**	**1.51E-5**	**1.29E-5**	**3.33E-5**	**9.39E-6 J**		**2.39E-6 J**
PCB-159	ug/L	< 1.75E-6 U	< 1.75E-6 U	< 1.75E-6 U	< 4.98E-6 U	< 4.84E-6 U	< 4.76E-6 U		< 1.75E-6 U
PCB-166	ug/L	< 1.36E-6 U	< 1.36E-6 U	< 1.36E-6 U	< 4.98E-6 U	< 4.84E-6 U	< 4.76E-6 U		< 1.36E-6 U
PCB-167	ug/L	**2.83E-6 J**	**3.47E-6 J**	**6.21E-6**	**5.56E-6**	**1.37E-5**	**3.41E-6 J**		< 1.70E-6 U
PCB-168	ug/L	< 1.04E-6 U	< 1.04E-6 U	< 1.04E-6 U	< 4.98E-6 U	< 4.84E-6 U	< 4.76E-6 U		< 1.04E-6 U
PCB-169	ug/L	< 2.27E-6 U	< 2.27E-6 U	< 2.27E-6 U	< 4.98E-6 U	< 4.84E-6 U	< 4.76E-6 U		< 2.27E-6 U
PCB-170	ug/L	**2.15E-5**	**2.55E-5**	**4.34E-5**	**4.29E-5**	**9.27E-5**	**2.21E-5**		**5.46E-6**
PCB-171	ug/L	**5.58E-6**	**7.50E-6**	**1.28E-5**	**1.22E-5**	**2.55E-5**	**7.09E-6**		**1.68E-6 J**
PCB-172	ug/L	**3.84E-6 J**	**5.33E-6**	**9.95E-6**	**9.05E-6**	**1.84E-5**	**4.98E-6**		**1.23E-6 J**
PCB-173	ug/L	< 2.52E-6 U	< 2.52E-6 U	**1.62E-6 J**	< 4.98E-6 U	**2.10E-6 J**	< 4.76E-6 U		< 2.52E-6 U
PCB-174	ug/L	**2.84E-5**	**3.39E-5**	**6.24E-5**	**5.17E-5**	**1.16E-4**	**3.12E-5**		**7.21E-6**
PCB-175	ug/L	**1.01E-6 J**	**1.13E-6 J**	**2.31E-6 J**	**2.11E-6 J**	**4.49E-6 J**	< 4.76E-6 U		< 2.18E-6 U
PCB-176	ug/L	< 2.57E-6 U	**3.27E-6 J**	**6.25E-6**	**5.92E-6**	**1.16E-5**	**3.23E-6 J**		< 2.57E-6 U
PCB-177	ug/L	**1.50E-5**	**1.85E-5**	**3.42E-5**	**2.86E-5**	**6.24E-5**	**1.58E-5**		**4.06E-6 J**

Table I.6.E Individual PCB Aroclors and Congeners in Storwmater

South Park Marina Site, Seattle, Washington

Location		SWRX-POST							
Sample Date		04/12/17	05/16/17	06/08/17	09/19/17	10/18/17	11/03/17	11/22/22	12/01/16
Sample		SPM-SWRX-POST-SW-20170412	SPM-SWRX-POST-SW-20170516	SPM-SWRX-POST-SW-20170608	SPM-SWRX-POST-SW-20170919	SPM-SWRX-POST-SW-20171018	SPM-SWRX-POST-SW-20171103	SWRX-POST-SW-221122	SPM-SWRX-POST-SW-20161201
Analyte	**Unit**								
PCB-178	ug/L	**4.53E-6 J**	**6.22E-6**	**1.08E-5**	**1.02E-5**	**2.04E-5**	< 4.76E-6 U		< 2.60E-6 U
PCB-179	ug/L	**1.04E-5**	**1.25E-5**	**2.32E-5**	**2.08E-5**	**3.93E-5**	**1.06E-5**		**2.97E-6 J**
PCB-180	ug/L	**5.63E-5**	**6.78E-5**	**1.22E-4**	**1.19E-4**	**2.55E-4**	**6.32E-5**		**1.35E-5**
PCB-181	ug/L	< 1.85E-6 U	< 1.85E-6 U	< 1.85E-6 U	< 4.98E-6 U	< 4.84E-6 U	< 4.76E-6 U		< 1.85E-6 U
PCB-182/187	ug/L	**2.77E-5**	**3.61E-5**	**6.37E-5**	**6.42E-5**	**1.27E-4**	**3.53E-5**		**8.12E-6 J**
PCB-183	ug/L	**1.18E-5**	**1.46E-5**	**2.64E-5**	**2.64E-5**	**5.68E-5**	**1.42E-5**		**3.78E-6 J**
PCB-184	ug/L	< 1.40E-6 U	< 1.40E-6 U	< 1.40E-6 U	< 4.98E-6 U	< 4.84E-6 U	< 4.76E-6 U		< 1.40E-6 U
PCB-185	ug/L	**2.77E-6 J**	**3.96E-6 J**	**7.28E-6**	**5.60E-6**	**1.21E-5**	**2.34E-6 J**		< 1.02E-6 U
PCB-186	ug/L	< 2.69E-6 U	< 2.69E-6 U	< 2.69E-6 U	< 4.98E-6 U	< 4.84E-6 U	< 4.76E-6 U		< 2.69E-6 U
PCB-188	ug/L	< 1.98E-6 U	< 1.98E-6 U	< 1.98E-6 U	< 4.98E-6 U	< 4.84E-6 U	< 4.76E-6 U		< 1.98E-6 U
PCB-189	ug/L	< 1.49E-6 U	**8.93E-7 J**	**1.54E-6 J**	< 1.49E-6 U	**4.25E-6 J**	**9.06E-7 J**		< 1.49E-6 U
PCB-190	ug/L	< 2.11E-6 U	**5.13E-6**	**8.19E-6**	**8.19E-6**	**1.93E-5**	**5.24E-6**		< 2.11E-6 U
PCB-191	ug/L	< 9.50E-7 U	**1.06E-6 J**	**2.15E-6 J**	**1.64E-6 J**	< 4.84E-6 U	**1.34E-6 J**		< 9.50E-7 U
PCB-192	ug/L	< 1.79E-6 U	< 1.79E-6 U	< 1.79E-6 U	< 4.98E-6 U	< 4.84E-6 U	< 4.76E-6 U		< 1.79E-6 U
PCB-193	ug/L	**2.38E-6 J**	**3.32E-6 J**	**5.68E-6**	**5.49E-6**	**1.24E-5**	**2.39E-6 J**		< 1.42E-6 U
PCB-194	ug/L	**1.63E-5**	**1.56E-5**	**3.29E-5**	**3.14E-5**	**5.26E-5**	**1.33E-5**		**3.50E-6 J**
PCB-195	ug/L	**7.08E-6**	**6.33E-6**	**1.17E-5**	**1.20E-5**	**2.07E-5**	**5.02E-6**		< 1.48E-6 U
PCB-196/203	ug/L	**1.27E-5**	**1.66E-5**	< 5.56E-6 U	**3.35E-5**	**6.01E-5**	**1.74E-5**		**6.63E-6 J**
PCB-197	ug/L	< 2.45E-6 U	< 2.45E-6 U	**1.13E-6 J**	**1.07E-6 J**	**2.88E-6 J**	< 4.76E-6 U		< 2.45E-6 U
PCB-198	ug/L	**6.19E-7 J**	**1.03E-6 J**	**8.36E-7 J**	**1.10E-6 J**	**2.94E-6 J**	< 4.76E-6 U		< 4.50E-6 U
PCB-199	ug/L	**1.50E-5**	**1.74E-5**	**3.41E-5**	**3.45E-5**	**6.09E-5**	**1.66E-5**		**7.21E-6**
PCB-200	ug/L	< 3.32E-6 U	**1.51E-6 J**	**3.68E-6 J**	**3.49E-6 J**	< 4.84E-6 U	< 4.76E-6 U		< 3.32E-6 U
PCB-201	ug/L	**1.71E-6 J**	< 1.65E-6 U	**4.44E-6 J**	**4.04E-6 J**	**6.86E-6**	< 4.76E-6 U		< 1.65E-6 U
PCB-202	ug/L	**2.74E-6 J**	**3.39E-6 J**	**6.75E-6**	**6.56E-6**	**9.51E-6**	**3.40E-6 J**		< 1.24E-6 U
PCB-204	ug/L	< 2.47E-6 U	< 2.47E-6 U	< 2.47E-6 U	< 4.98E-6 U	< 4.84E-6 U	< 4.76E-6 U		< 2.47E-6 U
PCB-205	ug/L	**6.36E-7 J**	**7.05E-7 J**	**1.08E-6 J**	< 1.24E-6 U	**2.99E-6 J**	< 4.76E-6 U		< 1.82E-6 U
PCB-206	ug/L	**4.81E-6 J**	**3.76E-6 J**	**8.36E-6**	**9.64E-6**	**1.13E-5**	**4.08E-6 J**		**1.17E-6 J**
PCB-207	ug/L	**6.25E-7 J**	< 1.32E-6 U	**1.09E-6 J**	**1.36E-6 J**	< 4.84E-6 U	< 4.76E-6 U		< 1.32E-6 U
PCB-208	ug/L	**1.43E-6 J**	**1.03E-6 J**	**1.95E-6 J**	**2.21E-6 J**	**3.10E-6 J**	< 4.76E-6 U		< 8.87E-7 U
PCB-209	ug/L	**1.04E-6 J**	**1.58E-6 J**	**1.97E-6 J**	< 4.98E-6 U	< 4.84E-6 U	< 4.76E-6 U		< 2.28E-6 U
Total Decachlorobiphenyls	ug/L	**1.04E-6**	**1.58E-6**	**1.97E-6**	< 1.15E-6 U	< 1.76E-6 U	< 1.51E-6 U		< 6.79E-7 U
Total Dichlorobiphenyls	ug/L	**1.13E-5**	**1.79E-5**	**9.22E-6**	< 8.97E-6 UJ	**2.77E-5**	**7.56E-6**		< 5.25E-6 U
Total Heptachlorobiphenyls	ug/L	**1.91E-4**	**2.47E-4**	**4.44E-4**	**4.15E-4 J**	**8.79E-4**	**2.20E-4**		**4.81E-5**
Total Hexachlorobiphenyls	ug/L	**2.72E-4**	**3.61E-4**	**6.01E-4**	**5.54E-4 J**	**1.22E-3**	**3.21E-4**		**1.03E-4**
Total Monochlorobiphenyls	ug/L	< 3.50E-7 U	< 1.24E-6 U	< 1.71E-6 U	< 8.28E-7 U	< 2.52E-6 U	< 2.12E-6 U		< 2.02E-6 U
Total Nonachlorobiphenyls	ug/L	**6.87E-6**	**4.79E-6**	**1.14E-5**	**1.32E-5**	**1.44E-5**	**4.08E-6**		**1.17E-6**
Total Octachlorobiphenyls	ug/L	**5.67E-5**	**6.26E-5**	**9.66E-5**	**1.29E-4**	**2.19E-4**	**5.58E-5**		**1.73E-5**
Total Pentachlorobiphenyls	ug/L	**1.95E-4**	**2.65E-4**	**4.24E-4**	**3.47E-4 J**	**9.72E-4**	**2.55E-4**		**1.07E-4**
Total Tetrachlorobiphenyls	ug/L	**6.36E-5**	**8.16E-5**	**1.92E-4**	**6.91E-5 J**	**2.52E-4**	**6.11E-5**		**4.64E-5**
Total Trichlorobiphenyls	ug/L	**1.70E-5**	**1.19E-5**	**1.36E-5**	**8.95E-6 J**	**3.50E-5**	< 1.80E-6 U		< 3.03E-6 U
Total PCB Congeners (ND = 0)	ug/L	**8.14E-4 J**	**1.05E-3 J**	**1.79E-3 J**	**1.53E-3 J**	**3.62E-3 J**	**9.24E-4 J**		**3.23E-4 J**
Total PCB TEQ (ND = 0)	ug/L	**7.84E-8 J**	**8.41E-8 J**	**1.37E-7 J**	**1.40E-9 J**	**3.62E-7 J**	**1.03E-9 J**		**1.00E-10 J**

Notes:

Bold = detected

mg/kg = milligrams per kilogram

U = Analyte not detected at or above the RDL shown

J = Result value estimated

UJ = Analyte not detected, and the RDL shown is an estimate

(ND = 0) = calculated using zero for nondetected components

TEQ = Toxic Equivalency

A = One or more of the nine common Aroclor groups (1016, 1221, 1232, 1242, 1248, 1254, 1260, 1262, and 1268) were not reported, and the Total PCB Aroclors (ND = 0) sum assumes the missing components were nondetect.

Total PCB Aroclors (ND = 0) are the sum of Aroclors available, with nondetects = 0, unless all Aroclors were not detected, in which case the Total PCB Aroclors concentration is shown as nondetect at the maximum RDL for any individual Aroclor.

RDL = Reported Detection Limit

Table I.6.E Individual PCB Aroclors and Congeners in Storwmater

South Park Marina Site, Seattle, Washington

Location		SWRX-PRE							
Sample Date		03/04/21	04/12/17	05/16/17	05/27/21	05/27/21	06/08/17	09/02/21	09/02/21
Sample		PRERX-SW-210304	SPM-SWRX-PRE-SW-20170412	SPM-SWRX-PRE-SW-20170516	PRERX-SW-210527	PRERX-SW-FD-210527	SPM-SWRX-PRE-SW-20170608	20210902SWRX-1-TIG	20210902SWRX-2-TIG
Analyte	**Unit**								
Polychlorinated Biphenyl Aroclors									
Aroclor 1016	ug/L	< 0.01 U	< 0.054 U	< 0.047 U	< 0.01 U	< 0.01 U	< 0.047 U	< 0.049 U	< 0.048 U
Aroclor 1221	ug/L	< 0.01 U	< 0.054 U	< 0.047 U	< 0.01 U	< 0.01 U	< 0.047 U	< 0.049 U	< 0.048 U
Aroclor 1232	ug/L	< 0.01 U	< 0.054 U	< 0.047 U	< 0.01 U	< 0.01 U	< 0.047 U	< 0.049 U	< 0.048 U
Aroclor 1242	ug/L	< 0.01 U	< 0.054 U	< 0.047 U	< 0.01 U	< 0.01 U	< 0.047 U	< 0.049 U	< 0.048 U
Aroclor 1248	ug/L	< 0.01 U	< 0.054 U	< 0.047 U	< 0.01 U	< 0.01 U	< 0.047 U	< 0.049 U	< 0.048 U
Aroclor 1254	ug/L	**0.034**	< 0.054 U	< 0.047 U	**0.012**	**0.015**	< 0.047 U	< 0.098 U	< 0.048 U
Aroclor 1260	ug/L	**0.014**	< 0.054 U	< 0.047 U	**0.007 J**	**0.01 J**	< 0.047 U	< 0.098 U	< 0.048 U
Aroclor 1262	ug/L	< 0.01 U			< 0.01 U	< 0.01 U			
Aroclor 1268	ug/L	< 0.01 U			< 0.01 U	< 0.01 U			
Total PCB Aroclors (ND = 0)	ug/L	**0.048**	< 0.054 UA	< 0.047 UA	**0.019 J**	**0.025 J**	< 0.047 UA	< 0.098 UA	< 0.048 UA
Polychlorinated Biphenyl Congeners									
PCB-001	ug/L	< 4.96E-6 U	**1.22E-6 J**	**1.52E-6 J**	< 5.93E-6 U		**3.45E-6 J**		
PCB-002	ug/L	< 4.96E-6 U	**6.12E-7 J**	**7.13E-7 J**	< 4.94E-6 U		**2.31E-6 J**		
PCB-003	ug/L	< 4.96E-6 U	**7.38E-7 J**	**7.53E-7 J**	< 7.90E-6 U		**7.88E-6**		
PCB-004/010	ug/L	**6.15E-5**	**3.21E-5**	**1.34E-5**	< 9.88E-6 U		**2.93E-5**		
PCB-005/008	ug/L	**1.58E-5**	**2.60E-5**	**1.48E-5**	< 9.88E-6 U		**4.21E-5**		
PCB-006	ug/L	< 4.96E-6 U	**5.99E-6**	**3.67E-6 J**	< 4.94E-6 U		**9.35E-6**		
PCB-007/009	ug/L	< 9.92E-6 U	**3.45E-6 J**	< 2.31E-6 U	< 9.88E-6 U		< 2.31E-6 U		
PCB-011	ug/L	**1.41E-4 J**	**2.28E-4**	**8.84E-5**	**1.07E-4**		**2.52E-4**		
PCB-012/013	ug/L	< 9.92E-6 U	**3.41E-6 J**	< 3.65E-6 U	< 9.88E-6 U		< 3.65E-6 U		
PCB-014	ug/L	< 4.96E-6 U	< 1.44E-6 U	< 1.44E-6 U	< 4.94E-6 U		< 1.44E-6 U		
PCB-015	ug/L	**8.68E-5**	**2.52E-5**	**1.07E-5**	< 4.94E-6 U		**2.52E-5**		
PCB-016/032	ug/L	**1.69E-4**	**6.50E-5**	**3.68E-5**	< 9.88E-6 U		**5.35E-5**		
PCB-017	ug/L	**1.03E-4**	**3.12E-5**	**1.60E-5**	< 4.94E-6 U		**2.61E-5**		
PCB-018	ug/L	**2.70E-4**	**9.88E-5**	**5.50E-5**	**2.09E-5**		**8.36E-5**		
PCB-019	ug/L	**2.69E-5**	**1.07E-5**	**6.62E-6**	< 4.94E-6 U		**9.09E-6**		
PCB-020/021/033	ug/L	**7.16E-5**	**6.82E-5**	**1.34E-5 J**	< 1.48E-5 U		**7.86E-5**		
PCB-022	ug/L	**6.58E-5**	**4.70E-5**	**5.56E-6**	< 4.94E-6 U		**4.88E-5**		
PCB-023	ug/L	< 4.96E-6 U	< 3.00E-6 U	< 3.00E-6 U	< 4.94E-6 U		< 3.00E-6 U		
PCB-024/027	ug/L	**1.97E-5**	**7.22E-6 J**	**4.31E-6 J**	< 9.88E-6 U		**5.94E-6 J**		
PCB-025	ug/L	**1.69E-5**	**7.18E-6**	**1.76E-6 J**	< 4.94E-6 U		**6.71E-6**		
PCB-026	ug/L	**4.41E-5**	**1.69E-5**	**2.62E-6 J**	< 4.94E-6 U		**1.77E-5**		
PCB-028	ug/L	**2.87E-4**	**1.01E-4**	< 3.36E-6 U	**2.21E-5**		**1.13E-4**		
PCB-029	ug/L	< 4.96E-6 U	< 1.92E-6 U	< 1.92E-6 U	< 4.94E-6 U		< 1.92E-6 U		
PCB-030	ug/L	< 4.96E-6 U	< 1.66E-6 U	< 1.66E-6 U	< 4.94E-6 U		< 1.66E-6 U		
PCB-031	ug/L	**2.17E-4**	**1.36E-4**	**1.64E-5**	**1.52E-5**		**1.16E-4**		
PCB-034	ug/L	< 4.96E-6 U	< 1.08E-6 U	< 1.08E-6 U	< 4.94E-6 U		< 1.08E-6 U		
PCB-035	ug/L	**2.11E-5**	**2.90E-5**	**3.84E-6 J**	**8.14E-6**		**4.84E-5**		
PCB-036	ug/L	**1.56E-5**	**3.57E-6 J**	< 2.02E-6 U	< 4.94E-6 U		**3.88E-6 J**		
PCB-037	ug/L	**8.67E-5**	**6.58E-5**	< 1.71E-6 U	**1.66E-5**		**7.35E-5**		
PCB-038	ug/L	< 4.96E-6 U	**4.33E-6 J**	< 1.97E-6 U	< 4.94E-6 U		**1.78E-6 J**		
PCB-039	ug/L	< 4.96E-6 U	< 2.21E-6 U	< 2.21E-6 U	< 4.94E-6 U		< 2.21E-6 U		
PCB-040	ug/L	**1.02E-4**	**4.85E-5**	**1.23E-5**	< 4.94E-6 U		**4.61E-5**		
PCB-041/064/071/072	ug/L	**4.13E-4**	**2.03E-4**	**5.18E-5**	**1.12E-4**		**2.08E-4**		
PCB-042/059	ug/L	**1.51E-4**	**6.65E-5**	**1.58E-5**	< 9.88E-6 U		**6.19E-5**		
PCB-043/049	ug/L	**4.88E-4**	**1.30E-4**	**3.37E-5**	**1.03E-4**		**1.44E-4**		
PCB-044	ug/L	**7.56E-4**	**2.57E-4**	**7.23E-5**	**2.29E-4**		**2.74E-4**		
PCB-045	ug/L	**7.59E-5**	**2.52E-5**	**6.50E-6**	< 4.94E-6 U		**2.51E-5**		
PCB-046	ug/L	**3.17E-5**	**1.29E-5**	< 1.79E-6 U	< 4.94E-6 U		**1.32E-5**		
PCB-047	ug/L	**1.44E-4**	**4.78E-5**	**1.21E-5**	**2.25E-5**		**4.18E-5**		
PCB-048/075	ug/L	**7.15E-5**	**3.49E-5**	**6.98E-6 J**	< 9.88E-6 U		**3.19E-5**		
PCB-050	ug/L	< 4.96E-6 U	< 1.91E-6 U	< 1.91E-6 U	< 4.94E-6 U		< 1.91E-6 U		
PCB-051	ug/L	**2.00E-5**	**9.70E-6**	**2.72E-6 J**	< 4.94E-6 U		**7.15E-6**		
PCB-052/069	ug/L	**1.50E-3**	**2.76E-4**	**7.59E-5**	**3.90E-4**		**3.21E-4**		
PCB-053	ug/L	**8.84E-5**	**2.71E-5**	**7.97E-6**	< 4.94E-6 U		**2.57E-5**		
PCB-054	ug/L	**1.36E-6 J**	< 2.17E-6 U	< 2.17E-6 U	< 4.94E-6 U		< 2.17E-6 U		
PCB-055	ug/L	**2.78E-5**	**8.39E-6**	< 2.10E-6 U	< 4.94E-6 U		**6.34E-6**		
PCB-056/060	ug/L	**2.96E-4**	**2.09E-4**	**4.66E-5**	**9.07E-5**		**2.72E-4**		
PCB-057	ug/L	< 4.96E-6 U	**1.01E-6 J**	< 2.31E-6 U	< 4.94E-6 U		**1.51E-6 J**		
PCB-058	ug/L	< 4.96E-6 U	< 3.01E-6 U	< 3.01E-6 U	< 4.94E-6 U		**6.79E-7 J**		
PCB-061/070	ug/L	**8.78E-4**	**4.15E-4**	**1.01E-4**	**3.80E-4**		**5.33E-4**		
PCB-062	ug/L	< 4.96E-6 U	< 1.98E-6 U	< 1.98E-6 U	< 4.94E-6 U		< 1.98E-6 U		
PCB-063	ug/L	< 4.96E-6 U	**9.06E-6**	**2.01E-6 J**	< 4.94E-6 U		**1.03E-5**		
PCB-065	ug/L	< 4.96E-6 U	< 2.61E-6 U	< 2.61E-6 U	< 4.94E-6 U		< 2.61E-6 U		
PCB-066/076	ug/L	**5.05E-4**	**2.63E-4**	**5.73E-5**	**1.29E-4**		**3.04E-4**		
PCB-067	ug/L	< 4.96E-6 U	**6.41E-6**	**1.79E-6 J**	< 4.94E-6 U		**8.64E-6**		
PCB-068	ug/L	< 4.96E-6 U	< 2.49E-6 U	< 2.49E-6 U	< 4.94E-6 U		**1.29E-6 J**		
PCB-073	ug/L	< 4.96E-6 U	< 1.69E-6 U	< 1.69E-6 U	< 4.94E-6 U		< 1.69E-6 U		
PCB-074	ug/L	**1.93E-4**	**1.28E-4**	**2.85E-5**	**7.79E-5**		**1.47E-4**		
PCB-077	ug/L	< 4.96E-6 U	**5.94E-5**	**1.80E-5**	**3.65E-5**		**1.22E-4**		
PCB-078	ug/L	< 4.96E-6 U	< 1.95E-6 U	< 1.95E-6 U	< 4.94E-6 U		< 1.95E-6 U		
PCB-079	ug/L	**5.11E-5**	**9.04E-6**	**3.98E-6 J**	**1.06E-5**		**1.09E-5**		
PCB-080	ug/L	< 4.96E-6 U	< 2.47E-6 U	< 2.47E-6 U	< 4.94E-6 U		< 2.47E-6 U		
PCB-081	ug/L	< 4.96E-6 U	**5.79E-6**	**2.11E-6 J**	< 4.94E-6 U		**5.37E-6**		
PCB-082	ug/L	**5.23E-4**	**1.08E-4**	**4.26E-5**	**1.57E-4**		**1.71E-4**		

Table I.6.E Individual PCB Aroclors and Congeners in Storwmater

South Park Marina Site, Seattle, Washington

Location		SWRX-PRE							
Sample Date		03/04/21	04/12/17	05/16/17	05/27/21	05/27/21	06/08/17	09/02/21	09/02/21
Sample		PRERX-SW-210304	SPM-SWRX-PRE-SW-20170412	SPM-SWRX-PRE-SW-20170516	PRERX-SW-210527	PRERX-SW-FD-210527	SPM-SWRX-PRE-SW-20170608	20210902SWRX-1-TIG	20210902SWRX-2-TIG
Analyte	**Unit**								
PCB-083	ug/L	< 4.96E-6 U	< 1.16E-6 U	< 1.16E-6 U	< 4.94E-6 U		< 1.16E-6 U		
PCB-084/092	ug/L	**1.99E-3**	**2.23E-4**	**9.48E-5**	**4.55E-4**		**3.35E-4**		
PCB-085/116	ug/L	**8.20E-4**	**1.10E-4**	**4.10E-5**	**1.72E-4**		**1.67E-4**		
PCB-086	ug/L	**1.98E-5**	< 3.08E-6 U	< 3.08E-6 U	< 4.94E-6 U		**3.60E-6 J**		
PCB-087/117/125	ug/L	**1.81E-3**	**2.57E-4**	**1.06E-4**	**4.80E-4**		**4.13E-4**		
PCB-088/091	ug/L	**6.37E-4**	**7.02E-5**	**2.54E-5**	**1.28E-4**		**9.23E-5**		
PCB-089	ug/L	**4.21E-5**	**7.82E-6**	**2.97E-6 J**	< 4.94E-6 U		**9.35E-6**		
PCB-090/101	ug/L	**5.06E-3**	**5.55E-4**	**2.42E-4**	**1.19E-3**		**8.60E-4**		
PCB-093	ug/L	< 4.96E-6 U	< 1.86E-6 U	< 1.86E-6 U	**3.35E-5**		< 1.86E-6 U		
PCB-094	ug/L	**1.57E-5**	**2.82E-6 J**	**9.26E-7 J**	**5.12E-6**		**2.98E-6 J**		
PCB-095/098/102	ug/L	**3.45E-3**	**3.78E-4**	**1.60E-4**	**6.95E-4**		**5.33E-4**		
PCB-096	ug/L	**2.10E-5**	< 1.13E-6 U	**9.77E-7 J**	**4.81E-6**		**4.35E-6 J**		
PCB-097	ug/L	**1.32E-3**	**1.94E-4**	**7.71E-5**	**3.44E-4**		**2.98E-4**		
PCB-099	ug/L	**2.12E-3**	**2.23E-4**	**8.73E-5**	**4.08E-4**		**3.18E-4**		
PCB-100	ug/L	**8.98E-6**	< 1.54E-6 U	< 1.54E-6 U	< 4.94E-6 U		**1.17E-6 J**		
PCB-103	ug/L	**1.79E-5**	**1.99E-6 J**	< 1.72E-6 U	< 4.94E-6 U		**3.35E-6 J**		
PCB-104	ug/L	< 4.96E-6 U	< 1.42E-6 U	< 1.42E-6 U	< 4.94E-6 U		< 1.42E-6 U		
PCB-105	ug/L	**1.09E-3**	**3.44E-4**	**9.81E-5**	**5.05E-4**		**5.51E-4**		
PCB-106/118	ug/L	**3.27E-3**	**5.89E-4**	**2.48E-4**	**1.12E-3**		**1.09E-3**		
PCB-107/109	ug/L	**1.99E-4**	**4.47E-5**	**1.84E-5**	**7.16E-5**		**7.94E-5**		
PCB-108/112	ug/L	**1.49E-4**	**2.59E-5**	**1.11E-5**	**4.86E-5**		**3.94E-5**		
PCB-110	ug/L	**5.53E-3**	**7.54E-4**	**3.37E-4**	**1.47E-3**		**1.24E-3**		
PCB-111/115	ug/L	**6.39E-5**	**9.03E-6 J**	**3.66E-6 J**	**1.89E-5**		**1.24E-5**		
PCB-113	ug/L	**1.67E-5**	< 3.03E-6 U	< 3.03E-6 U	< 4.94E-6 U		**5.90E-6**		
PCB-114	ug/L	**4.03E-5**	**2.02E-5**	**5.42E-6**	**2.33E-5**		**2.92E-5**		
PCB-119	ug/L	**5.63E-5**	**8.09E-6**	**2.73E-6 J**	< 4.94E-6 U		**1.05E-5**		
PCB-120	ug/L	< 4.96E-6 U	< 1.82E-6 U	< 1.82E-6 U	< 4.94E-6 U		**1.68E-6 J**		
PCB-121	ug/L	< 4.96E-6 U	< 4.01E-6 U	< 4.01E-6 U	< 4.94E-6 U		< 4.01E-6 U		
PCB-122	ug/L	**5.23E-5**	**9.46E-6**	**2.61E-6 J**	< 4.94E-6 U		**1.71E-5**		
PCB-123	ug/L	**7.89E-5**	**1.20E-5**	**4.30E-6 J**	**1.90E-5**		**1.78E-5**		
PCB-124	ug/L	**1.76E-4**	**3.16E-5**	**1.38E-5**	**5.01E-5**		**5.51E-5**		
PCB-126	ug/L	**2.69E-5**	**1.30E-5**	**5.14E-6**	< 4.94E-6 U		**3.32E-5**		
PCB-127	ug/L	< 4.96E-6 U	< 1.02E-6 U	< 1.02E-6 U	< 4.94E-6 U		< 1.02E-6 U		
PCB-128/162	ug/L	**9.72E-4**	**1.42E-4**	**5.88E-5**	**2.67E-4**		**2.66E-4**		
PCB-129	ug/L	**2.76E-4**	**4.65E-5**	**2.03E-5**	**7.54E-5**		**8.59E-5**		
PCB-130	ug/L	**3.41E-4**	**5.78E-5**	**3.04E-5**	**9.44E-5**		**1.25E-4**		
PCB-131	ug/L								
PCB-131/133	ug/L	**1.29E-4**	**2.37E-5**	**1.07E-5**	**3.61E-5**		**4.21E-5**		
PCB-132/161	ug/L	**1.43E-3**	**2.52E-4**	**1.05E-4**	**3.94E-4**		**4.40E-4**		
PCB-133/142	ug/L								
PCB-134/143	ug/L	**2.77E-4**	**4.37E-5**	**1.90E-5**	**7.46E-5**		**6.95E-5**		
PCB-135	ug/L	**4.32E-4**	**8.29E-5**	**4.58E-5**	**1.43E-4**		**1.53E-4**		
PCB-136	ug/L	**5.43E-4**	**6.75E-5**	**3.17E-5**	**1.42E-4**		**1.18E-4**		
PCB-137	ug/L	**3.29E-4**	**4.51E-5**	**1.58E-5**	**9.02E-5**		**6.71E-5**		
PCB-138/163/164	ug/L	**4.88E-3**	**8.94E-4**	**4.16E-4**	**1.39E-3**		**1.79E-3**		
PCB-139/149	ug/L	**3.11E-3**	**5.22E-4**	**2.67E-4**	**8.72E-4**		**9.46E-4**		
PCB-140	ug/L	< 4.96E-6 U	**4.55E-6 J**	**2.74E-6 J**	**6.71E-6**		**8.28E-6**		
PCB-141	ug/L	**8.75E-4**	**1.79E-4**	**8.05E-5**	**2.53E-4**		**3.49E-4**		
PCB-142	ug/L	< 4.96E-6 U	< 3.11E-6 U	< 1.42E-6 U	< 4.94E-6 U		< 8.69E-7 U		
PCB-144	ug/L	**1.99E-4**	**2.82E-5**	**1.40E-5**	**5.74E-5**		**5.35E-5**		
PCB-145	ug/L	**1.63E-6 J**	< 3.32E-6 U	< 3.32E-6 U	< 4.94E-6 U		< 3.32E-6 U		
PCB-146/165	ug/L	**5.29E-4**	**1.14E-4**	**5.15E-5**	**1.46E-4**		**2.15E-4**		
PCB-147	ug/L	**9.37E-5**	**1.32E-5**	**5.29E-6**	< 4.94E-6 U		**2.05E-5**		
PCB-148	ug/L	< 4.96E-6 U	< 4.82E-6 U	< 4.82E-6 U	< 4.94E-6 U		< 4.82E-6 U		
PCB-150	ug/L	< 4.96E-6 U	**1.40E-6 J**	< 1.07E-6 U	< 4.94E-6 U		**1.90E-6 J**		
PCB-151	ug/L	**7.19E-4**	**1.28E-4**	**6.85E-5**	**1.98E-4**		**2.39E-4**		
PCB-152	ug/L	< 4.96E-6 U	< 2.69E-6 U	< 2.69E-6 U	< 4.94E-6 U		< 2.69E-6 U		
PCB-153	ug/L	**3.83E-3**	**7.29E-4**	**3.35E-4**	**9.91E-4**		**1.43E-3**		
PCB-154	ug/L	**3.40E-5**	**5.98E-6**	**3.59E-6 J**	**1.26E-5**		**1.32E-5**		
PCB-155	ug/L	< 4.96E-6 U	< 2.44E-6 U	< 2.44E-6 U	< 4.94E-6 U		< 2.44E-6 U		
PCB-156	ug/L	**4.27E-4**	**8.83E-5**	**3.52E-5**	**1.50E-4**		**1.75E-4**		
PCB-157	ug/L	**1.47E-4**	**2.21E-5**	**8.78E-6**	**4.09E-5**		**4.15E-5**		
PCB-158/160	ug/L	**6.49E-4**	**1.02E-4**	**4.62E-5**	**1.78E-4**		**1.93E-4**		
PCB-159	ug/L	**3.18E-5**	< 1.75E-6 U	< 1.75E-6 U	< 4.94E-6 U		< 1.75E-6 U		
PCB-166	ug/L	< 4.96E-6 U	**3.17E-6 J**	**1.23E-6 J**	< 4.94E-6 U		**5.31E-6**		
PCB-167	ug/L	**2.17E-4**	**3.99E-5**	**1.72E-5**	**6.29E-5**		**9.03E-5**		
PCB-168	ug/L	**1.61E-5**	< 1.04E-6 U	< 1.04E-6 U	< 4.94E-6 U		**2.37E-6 J**		
PCB-169	ug/L	< 4.96E-6 U	< 2.27E-6 U	< 2.27E-6 U	< 4.94E-6 U		**2.28E-6 J**		
PCB-170	ug/L	**7.70E-4**	**2.46E-4**	**1.17E-4**	**2.65E-4**		**5.13E-4**		
PCB-171	ug/L	**2.19E-4**	**6.53E-5**	**2.98E-5**	**6.58E-5**		**1.33E-4**		
PCB-172	ug/L	**1.23E-4**	**4.49E-5**	**2.46E-5**	**4.26E-5**		**1.04E-4**		
PCB-173	ug/L	**1.84E-5**	**5.31E-6 J**	**3.21E-6 J**	**7.07E-6**		**1.22E-5**		
PCB-174	ug/L	**7.83E-4**	**2.84E-4**	**1.40E-4**	**2.50E-4**		**5.78E-4**		
PCB-175	ug/L	**3.45E-5**	**1.03E-5**	**5.31E-6**	< 4.94E-6 U		**2.03E-5**		
PCB-176	ug/L	**9.67E-5**	**2.78E-5**	**1.25E-5**	< 4.94E-6 U		**4.90E-5**		
PCB-177	ug/L	**4.42E-4**	**1.60E-4**	**8.17E-5**	**1.53E-4**		**3.34E-4**		

Table I.6.E Individual PCB Aroclors and Congeners in Storwmater

South Park Marina Site, Seattle, Washington

Location		SWRX-PRE							
Sample Date		03/04/21	04/12/17	05/16/17	05/27/21	05/27/21	06/08/17	09/02/21	09/02/21
Sample		PRERX-SW-210304	SPM-SWRX-PRE-SW-20170412	SPM-SWRX-PRE-SW-20170516	PRERX-SW-210527	PRERX-SW-FD-210527	SPM-SWRX-PRE-SW-20170608	20210902SWRX-1-TIG	20210902SWRX-2-TIG
Analyte	**Unit**								
PCB-178	ug/L	**1.38E-4**	**5.44E-5**	**2.41E-5**	**4.79E-5**		**9.36E-5**		
PCB-179	ug/L	**3.02E-4**	**1.00E-4**	**4.40E-5**	**8.95E-5**		**1.72E-4**		
PCB-180	ug/L	**1.85E-3**	**6.41E-4**	**3.13E-4**	**5.91E-4**		**1.37E-3**		
PCB-181	ug/L	**8.57E-6**	< 1.85E-6 U	< 1.85E-6 U	< 4.94E-6 U		< 1.85E-6 U		
PCB-182/187	ug/L	**8.61E-4**	**3.28E-4**	**1.48E-4**	**2.74E-4**		**5.79E-4**		
PCB-183	ug/L	**4.59E-4**	**1.38E-4**	**6.44E-5**	**1.38E-4**		**2.41E-4**		
PCB-184	ug/L	< 4.96E-6 U	< 1.40E-6 U	< 1.40E-6 U	< 4.94E-6 U		**1.17E-6 J**		
PCB-185	ug/L	**9.39E-5**	**2.88E-5**	**1.45E-5**	**2.70E-5**		**5.97E-5**		
PCB-186	ug/L	< 4.96E-6 U	< 2.69E-6 U	< 2.69E-6 U	< 4.94E-6 U		< 2.69E-6 U		
PCB-188	ug/L	< 4.96E-6 U	< 1.98E-6 U	**5.68E-7 J**	< 4.94E-6 U		< 1.98E-6 U		
PCB-189	ug/L	< 4.96E-6 U	**8.89E-6**	**4.13E-6 J**	**9.90E-6**		**2.03E-5**		
PCB-190	ug/L	**1.53E-4**	**4.21E-5**	**2.14E-5**	< 4.94E-6 U		**9.98E-5**		
PCB-191	ug/L	**3.72E-5**	**9.64E-6**	**4.79E-6 J**	< 4.94E-6 U		**2.17E-5**		
PCB-192	ug/L	< 4.96E-6 U	< 1.79E-6 U	< 1.79E-6 U	< 4.94E-6 U		< 1.79E-6 U		
PCB-193	ug/L	**9.28E-5**	**2.87E-5**	**1.42E-5**	**3.34E-5**		**6.29E-5**		
PCB-194	ug/L	**4.16E-4**	**1.40E-4**	**5.60E-5**	**1.05E-4**		**2.75E-4**		
PCB-195	ug/L	**1.47E-4**	**5.64E-5**	**2.21E-5**	**3.49E-5**		**1.04E-4**		
PCB-196/203	ug/L	**6.07E-4**	**1.24E-4**	**8.09E-5**	**1.32E-4**		**2.45E-4**		
PCB-197	ug/L	< 4.96E-6 U	**6.02E-6**	**2.59E-6 J**	**4.95E-6**		**7.98E-6**		
PCB-198	ug/L	< 4.96E-6 U	**4.08E-6 J**	**2.91E-6 J**	< 4.94E-6 U		**8.71E-6**		
PCB-199	ug/L	**5.17E-4**	**1.28E-4**	**9.08E-5**	< 4.94E-6 U		**2.74E-4**		
PCB-200	ug/L	**6.25E-5**	**1.69E-5**	**9.53E-6**	< 4.94E-6 U		**2.73E-5**		
PCB-201	ug/L	**7.53E-5**	< 1.65E-6 U	**1.03E-5**	< 4.94E-6 U		**2.94E-5**		
PCB-202	ug/L	**8.91E-5**	**2.55E-5**	**1.44E-5**	< 4.94E-6 U		**4.53E-5**		
PCB-204	ug/L	< 4.96E-6 U	< 2.47E-6 U	< 2.47E-6 U	< 4.94E-6 U		< 2.47E-6 U		
PCB-205	ug/L	**2.08E-5**	**4.77E-6 J**	**2.20E-6 J**	**5.08E-6**		**1.12E-5**		
PCB-206	ug/L	**2.18E-4**	**3.77E-5**	**1.24E-5**	< 4.94E-6 U		**5.23E-5**		
PCB-207	ug/L	**3.41E-5**	< 1.32E-6 U	**2.03E-6 J**	< 4.94E-6 U		**7.54E-6**		
PCB-208	ug/L	**5.64E-5**	**7.21E-6**	**3.21E-6 J**	**9.37E-6**		**1.11E-5**		
PCB-209	ug/L	**3.07E-5**	**6.58E-6**	**7.27E-6**	**6.99E-6**		**8.72E-6**		
Total Decachlorobiphenyls	ug/L	**3.07E-5**	**6.58E-6**	**7.27E-6**	**6.99E-6**		**8.72E-6**		
Total Dichlorobiphenyls	ug/L	**3.06E-4**	**3.25E-4**	**1.31E-4**	**1.07E-4**		**3.58E-4**		
Total Heptachlorobiphenyls	ug/L	**6.48E-3 J**	**2.22E-3**	**1.07E-3**	**1.99E-3 J**		**4.47E-3**		
Total Hexachlorobiphenyls	ug/L	**2.05E-2 J**	**3.64E-3**	**1.69E-3**	**5.67E-3 J**		**6.94E-3**		
Total Monochlorobiphenyls	ug/L	< 6.91E-6 J	**2.57E-6**	**2.99E-6**	< 4.94E-6 U		**1.36E-5**		
Total Nonachlorobiphenyls	ug/L	**3.08E-4**	**4.49E-5**	**1.76E-5**	**9.37E-6 J**		**7.09E-5**		
Total Octachlorobiphenyls	ug/L	**1.93E-3 J**	**5.06E-4**	**2.92E-4**	**2.81E-4 J**		**1.03E-3**		
Total Pentachlorobiphenyls	ug/L	**2.86E-2**	**3.99E-3**	**1.63E-3**	**7.40E-3 J**		**6.40E-3**		
Total Tetrachlorobiphenyls	ug/L	**5.79E-3 J**	**2.25E-3**	**5.59E-4**	**1.58E-3 J**		**2.62E-3**		
Total Trichlorobiphenyls	ug/L	**1.41E-3 J**	**6.92E-4**	**1.62E-4**	**8.28E-5 J**		**6.86E-4**		
Total PCB Congeners (ND = 0)	ug/L	**6.54E-2 J**	**1.37E-2 J**	**5.56E-3 J**	**1.71E-2**		**2.26E-2 J**		
Total PCB TEQ (ND = 0)	ug/L	**2.75E-6**	**1.32E-6**	**5.22E-7 J**	**2.80E-8**		**3.43E-6 J**		

Notes:

Bold = detected

mg/kg = milligrams per kilogram

U = Analyte not detected at or above the RDL shown

J = Result value estimated

UJ = Analyte not detected, and the RDL shown is an estimate

(ND = 0) = calculated using zero for nondetected components

TEQ = Toxic Equivalency

A = One or more of the nine common Aroclor groups (1016, 1221, 1232, 1242, 1248, 1254, 1260, 1262, and 1268) were not reported, and the Total PCB Aroclors (ND = 0) sum assumes the missing components were nondetect.

Total PCB Aroclors (ND = 0) are the sum of Aroclors available, with nondetects = 0, unless all Aroclors were not detected, in which case the Total PCB Aroclors concentration is shown as nondetect at the maximum RDL for any individual Aroclor.

RDL = Reported Detection Limit

Table I.6.E Individual PCB Aroclors and Congeners in Storwmater

South Park Marina Site, Seattle, Washington

Location		SWRX-PRE (cont'd.)		
Sample Date		09/19/17	10/08/14	11/22/22
Sample		SPM-SWRX-PRE-SW-20170919	SP-OWS-01 (WATER)	SWRX-PRE-SW-221122
Analyte	**Unit**			
Polychlorinated Biphenyl Aroclors				
Aroclor 1016	ug/L	< 0.048 U		< 0.05 U
Aroclor 1221	ug/L	< 0.048 U		< 0.05 U
Aroclor 1232	ug/L	< 0.048 U		< 0.05 U
Aroclor 1242	ug/L	< 0.048 U		< 0.05 U
Aroclor 1248	ug/L	< 0.048 U		< 0.05 U
Aroclor 1254	ug/L	< 0.048 U		< 0.05 U
Aroclor 1260	ug/L	< 0.048 U		**0.017 J**
Aroclor 1262	ug/L			< 0.05 U
Aroclor 1268	ug/L			< 0.05 U
Total PCB Aroclors (ND = 0)	ug/L	< 0.048 UA		**0.017 J**
Polychlorinated Biphenyl Congeners				
PCB-001	ug/L	**2.70E-6 J**	**1.10E-5**	
PCB-002	ug/L	**1.64E-6 J**	**2.00E-6 J**	
PCB-003	ug/L	**2.05E-6 J**	**9.67E-6**	
PCB-004/010	ug/L	**1.34E-5**	**2.38E-5**	
PCB-005/008	ug/L	**2.21E-5**	**3.10E-5**	
PCB-006	ug/L	**4.92E-6 J**	**6.83E-6 J**	
PCB-007/009	ug/L	< 1.00E-5 U	< 5.22E-6 U	
PCB-011	ug/L	**1.15E-4**	< 8.45E-5 U	
PCB-012/013	ug/L	**2.38E-6 J**	< 6.29E-6 U	
PCB-014	ug/L	< 5.01E-6 U	< 5.61E-6 U	
PCB-015	ug/L	**1.28E-5**	**2.07E-5**	
PCB-016/032	ug/L	**2.69E-5**	**5.60E-5**	
PCB-017	ug/L	**1.16E-5**	**2.78E-5**	
PCB-018	ug/L	**4.06E-5**	**9.23E-5**	
PCB-019	ug/L	**4.69E-6 J**	**1.14E-5**	
PCB-020/021/033	ug/L	**3.02E-5**	**3.61E-5**	
PCB-022	ug/L	**1.87E-5**	**2.21E-5**	
PCB-023	ug/L	< 5.01E-6 U	< 6.59E-7 U	
PCB-024/027	ug/L	**3.11E-6 J**	**6.73E-6 J**	
PCB-025	ug/L	**2.92E-6 J**	**4.45E-6 J**	
PCB-026	ug/L	**7.37E-6**	**1.24E-5**	
PCB-028	ug/L	**4.65E-5**	**6.29E-5**	
PCB-029	ug/L	< 5.01E-6 U	< 6.50E-7 U	
PCB-030	ug/L	< 5.01E-6 U	< 6.73E-7 U	
PCB-031	ug/L	**4.14E-5**	**6.57E-5**	
PCB-034	ug/L	< 5.01E-6 U	< 6.85E-7 U	
PCB-035	ug/L	**1.34E-5**	**6.27E-6**	
PCB-036	ug/L	**1.15E-6 J**	< 7.33E-7 U	
PCB-037	ug/L	**2.97E-5**	**2.69E-5**	
PCB-038	ug/L	< 5.01E-6 U	< 7.45E-7 U	
PCB-039	ug/L	< 5.01E-6 U	< 7.11E-7 U	
PCB-040	ug/L	**2.07E-5**	**3.11E-5**	
PCB-041/064/071/072	ug/L	**8.95E-5**	**1.52E-4**	
PCB-042/059	ug/L	**2.54E-5**	**4.27E-5**	
PCB-043/049	ug/L	**6.40E-5**	**1.44E-4**	
PCB-044	ug/L	**1.25E-4**	**2.45E-4**	
PCB-045	ug/L	**1.21E-5**	**2.26E-5**	
PCB-046	ug/L	**6.60E-6**	**1.03E-5**	
PCB-047	ug/L	**1.91E-5**	**3.78E-5**	
PCB-048/075	ug/L	**1.39E-5**	**2.41E-5**	
PCB-050	ug/L	< 5.01E-6 U	< 1.26E-6 U	
PCB-051	ug/L	< 5.01E-6 U	**6.95E-6**	
PCB-052/069	ug/L	**1.61E-4**	**3.96E-4**	
PCB-053	ug/L	**1.33E-5**	**2.50E-5**	
PCB-054	ug/L	< 5.01E-6 U	< 1.02E-6 U	
PCB-055	ug/L	**2.60E-6 J**	< 4.93E-6	
PCB-056/060	ug/L	**9.12E-5**	**1.17E-4**	
PCB-057	ug/L	**5.13E-7 J**	< 1.06E-6 U	
PCB-058	ug/L	< 5.01E-6 U	< 6.94E-7	
PCB-061/070	ug/L	**2.02E-4**	**3.77E-4**	
PCB-062	ug/L	< 5.01E-6 U	< 1.19E-6 U	
PCB-063	ug/L	**3.60E-6 J**	**7.30E-6**	
PCB-065	ug/L	< 5.01E-6 U	< 1.15E-6 U	
PCB-066/076	ug/L	**1.05E-4**	**1.85E-4**	
PCB-067	ug/L	**3.21E-6 J**	**4.05E-6 J**	
PCB-068	ug/L	**9.13E-7 J**	**2.21E-6 J**	
PCB-073	ug/L	< 5.01E-6 U	< 1.19E-6 U	
PCB-074	ug/L	**5.41E-5**	**9.39E-5**	
PCB-077	ug/L	**3.64E-5**	**2.53E-5**	
PCB-078	ug/L	**1.32E-6 J**	**2.48E-6 J**	
PCB-079	ug/L	**3.73E-6 J**	**8.81E-6**	
PCB-080	ug/L	< 5.01E-6 U	< 9.43E-7 U	
PCB-081	ug/L	**3.04E-6 J**	< 1.82E-6	
PCB-082	ug/L	**6.26E-5**	**1.07E-4**	

Table I.6.E Individual PCB Aroclors and Congeners in Storwmater

South Park Marina Site, Seattle, Washington

Location		SWRX-PRE (cont'd.)		
Sample Date		09/19/17	10/08/14	11/22/22
Sample		SPM-SWRX-PRE-SW-20170919	SP-OWS-01 (WATER)	SWRX-PRE-SW-221122
Analyte	Unit			
PCB-083	ug/L	< 5.01E-6 U	< 2.28E-6 U	
PCB-084/092	ug/L	**1.69E-4**	**3.57E-4**	
PCB-085/116	ug/L	**6.81E-5**	**1.35E-4**	
PCB-086	ug/L	< 5.01E-6 U	< 3.01E-6	
PCB-087/117/125	ug/L	**1.68E-4**	**3.21E-4**	
PCB-088/091	ug/L	**4.57E-5**	**1.15E-4**	
PCB-089	ug/L	**4.47E-6 J**	**5.79E-6**	
PCB-090/101	ug/L	**3.81E-4**	**8.54E-4**	
PCB-093	ug/L	< 5.01E-6 U	< 3.13E-6 U	
PCB-094	ug/L	**1.72E-6 J**	**3.39E-6 J**	
PCB-095/098/102	ug/L	**2.80E-4**	**6.37E-4**	
PCB-096	ug/L	**2.70E-6 J**	< 3.66E-6	
PCB-097	ug/L	**1.24E-4**	**2.53E-4**	
PCB-099	ug/L	**1.35E-4**	**3.15E-4**	
PCB-100	ug/L	< 5.01E-6 U	< 1.69E-6	
PCB-103	ug/L	**1.36E-6 J**	**4.91E-6 J**	
PCB-104	ug/L	< 5.01E-6 U	< 2.01E-6 U	
PCB-105	ug/L	**1.96E-4**	**2.94E-4**	
PCB-106/118	ug/L	**3.84E-4**	**7.66E-4**	
PCB-107/109	ug/L	**2.82E-5**	**5.32E-5**	
PCB-108/112	ug/L	**1.81E-5**	**4.08E-5**	
PCB-110	ug/L	**5.26E-4**	**9.66E-4**	
PCB-111/115	ug/L	**6.58E-6 J**	**1.16E-5**	
PCB-113	ug/L	**2.62E-6 J**	< 2.40E-6 U	
PCB-114	ug/L	**9.70E-6**	**1.76E-5**	
PCB-119	ug/L	**4.91E-6 J**	**1.35E-5**	
PCB-120	ug/L	< 5.01E-6 U	**2.28E-6 J**	
PCB-121	ug/L	< 5.01E-6 U	< 1.86E-6 U	
PCB-122	ug/L	**6.42E-6**	**7.17E-6**	
PCB-123	ug/L	**6.39E-6**	**1.16E-5**	
PCB-124	ug/L	**2.09E-5**	**3.78E-5**	
PCB-126	ug/L	**8.41E-6**	**6.18E-6**	
PCB-127	ug/L	< 5.01E-6 U	< 3.73E-6 U	
PCB-128/162	ug/L	**9.34E-5**	**1.58E-4**	
PCB-129	ug/L	**2.99E-5**	**5.43E-5**	
PCB-130	ug/L	**4.18E-5**	**6.55E-5**	
PCB-131	ug/L		< 3.18E-6 U	
PCB-131/133	ug/L	**1.55E-5**		
PCB-132/161	ug/L	**1.70E-4**	**2.59E-4**	
PCB-133/142	ug/L		**2.74E-5**	
PCB-134/143	ug/L	**2.83E-5**	**5.07E-5**	
PCB-135	ug/L	**5.61E-5**	**1.04E-4**	
PCB-136	ug/L	**4.82E-5**	**1.01E-4**	
PCB-137	ug/L	**2.85E-5**	**4.37E-5**	
PCB-138/163/164	ug/L	**6.21E-4**	**9.81E-4**	
PCB-139/149	ug/L	**3.75E-4**	**6.49E-4**	
PCB-140	ug/L	**2.52E-6 J**	**3.73E-6 J**	
PCB-141	ug/L	**1.21E-4**	**1.95E-4**	
PCB-142	ug/L	< 5.01E-6 U		
PCB-144	ug/L	**2.33E-5**	**3.44E-5**	
PCB-145	ug/L	< 5.01E-6 U	< 2.56E-6 U	
PCB-146/165	ug/L	**7.74E-5**	**1.07E-4**	
PCB-147	ug/L	< 5.01E-6 U	**1.66E-5**	
PCB-148	ug/L	< 5.01E-6 U	< 3.78E-6 U	
PCB-150	ug/L	< 5.01E-6 U	< 2.63E-6 U	
PCB-151	ug/L	**9.02E-5**	**1.67E-4**	
PCB-152	ug/L	< 5.01E-6 U	< 2.55E-6 U	
PCB-153	ug/L	**5.06E-4**	**7.63E-4**	
PCB-154	ug/L	**4.35E-6 J**	**6.74E-6**	
PCB-155	ug/L	< 5.01E-6 U	< 2.47E-6 U	
PCB-156	ug/L	**5.68E-5**	**9.40E-5**	
PCB-157	ug/L	**1.43E-5**	**2.03E-5**	
PCB-158/160	ug/L	**6.86E-5**	**1.17E-4**	
PCB-159	ug/L	**5.16E-6**	< 2.43E-6 U	
PCB-166	ug/L	**1.86E-6 J**	< 2.89E-6	
PCB-167	ug/L	**2.82E-5**	**4.09E-5**	
PCB-168	ug/L	< 5.01E-6 U	< 2.12E-6 U	
PCB-169	ug/L	< 5.01E-6 U	< 3.08E-6 U	
PCB-170	ug/L	**1.63E-4**	**1.99E-4**	
PCB-171	ug/L	**4.39E-5**	**5.75E-5**	
PCB-172	ug/L	**2.98E-5**	**3.94E-5**	
PCB-173	ug/L	< 5.01E-6 U	**5.58E-6**	
PCB-174	ug/L	**1.86E-4**	**2.12E-4**	
PCB-175	ug/L	**7.16E-6**	**7.85E-6**	
PCB-176	ug/L	**1.84E-5**	**2.59E-5**	
PCB-177	ug/L	**1.06E-4**	**1.23E-4**	

Table I.6.E Individual PCB Aroclors and Congeners in Storwmater

South Park Marina Site, Seattle, Washington

Location		SWRX-PRE (cont'd.)		
Sample Date		09/19/17	10/08/14	11/22/22
Sample		SPM-SWRX-PRE-SW-20170919	SP-OWS-01 (WATER)	SWRX-PRE-SW-221122
Analyte	**Unit**			
PCB-178	ug/L	**3.14E-5**	**4.12E-5**	
PCB-179	ug/L	**6.30E-5**	**8.10E-5**	
PCB-180	ug/L	**4.18E-4**	**4.50E-4**	
PCB-181	ug/L	< 5.01E-6 U	< 2.76E-6 U	
PCB-182/187	ug/L	**2.00E-4**	**2.63E-4**	
PCB-183	ug/L	**8.53E-5**	**1.09E-4**	
PCB-184	ug/L	< 5.01E-6 U	< 2.00E-6 U	
PCB-185	ug/L	**1.94E-5**	**2.30E-5**	
PCB-186	ug/L	< 5.01E-6 U	< 1.94E-6 U	
PCB-188	ug/L	< 5.01E-6 U	< 1.76E-6 U	
PCB-189	ug/L	< 5.01E-6 U	**7.26E-6**	
PCB-190	ug/L	**2.98E-5**	**3.94E-5**	
PCB-191	ug/L	**7.02E-6**	**8.44E-6**	
PCB-192	ug/L	< 5.01E-6 U	< 2.46E-6 U	
PCB-193	ug/L	**1.77E-5**	**2.35E-5**	
PCB-194	ug/L	**9.21E-5**	**8.54E-5**	
PCB-195	ug/L	**3.57E-5**	**3.33E-5**	
PCB-196/203	ug/L	**8.93E-5**	**9.26E-5**	
PCB-197	ug/L	**3.22E-6 J**	**4.06E-6 J**	
PCB-198	ug/L	**3.28E-6 J**	**3.75E-6 J**	
PCB-199	ug/L	**9.45E-5**	**9.40E-5**	
PCB-200	ug/L	**9.87E-6**	**1.25E-5**	
PCB-201	ug/L	**1.13E-5**	**1.02E-5**	
PCB-202	ug/L	**1.64E-5**	**1.84E-5**	
PCB-204	ug/L	< 5.01E-6 U	< 2.58E-6 U	
PCB-205	ug/L	**4.05E-6 J**	**4.80E-6 J**	
PCB-206	ug/L	**1.91E-5**	**1.96E-5**	
PCB-207	ug/L	**2.75E-6 J**	**2.32E-6 J**	
PCB-208	ug/L	< 5.01E-6 U	**4.44E-6 J**	
PCB-209	ug/L	**3.15E-6 J**	**6.56E-6**	
Total Decachlorobiphenyls	ug/L	**3.15E-6**	**6.56E-6**	
Total Dichlorobiphenyls	ug/L	**1.70E-4 J**	**8.23E-5 J**	
Total Heptachlorobiphenyls	ug/L	**1.43E-3**	**1.72E-3**	
Total Hexachlorobiphenyls	ug/L	**2.51E-3 J**	**4.06E-3 J**	
Total Monochlorobiphenyls	ug/L	**6.39E-6**	**2.27E-5 J**	
Total Nonachlorobiphenyls	ug/L	**2.19E-5 J**	**2.64E-5 J**	
Total Octachlorobiphenyls	ug/L	**3.60E-4**	**3.59E-4 J**	
Total Pentachlorobiphenyls	ug/L	**2.66E-3**	**5.34E-3 J**	
Total Tetrachlorobiphenyls	ug/L	**1.06E-3**	**1.96E-3 J**	
Total Trichlorobiphenyls	ug/L	**2.78E-4 J**	**4.31E-4 J**	
Total PCB Congeners (ND = 0)	ug/L	**8.49E-3 J**	**1.40E-2 J**	
Total PCB TEQ (ND = 0)	ug/L	**8.55E-7 J**	**6.35E-7**	

Notes:

Bold = detected

mg/kg = milligrams per kilogram

U = Analyte not detected at or above the RDL shown

J = Result value estimated

UJ = Analyte not detected, and the RDL shown is an estimate

(ND = 0) = calculated using zero for nondetected components

TEQ = Toxic Equivalency

A = One or more of the nine common Aroclor groups (1016, 1221, 1232, 1242, 1248, 1254, 1260, 1262, and 1268) were not reported, and the Total PCB Aroclors (ND = 0) sum assumes the missing components were nondetect.

Total PCB Aroclors (ND = 0) are the sum of Aroclors available, with nondetects = 0, unless all Aroclors were not detected, in which case the Total PCB Aroclors concentration is shown as nondetect at the maximum RDL for any individual Aroclor.

RDL = Reported Detection Limit

APPENDIX J

Summary Statistics for COPCs by Area and Media

Table J.1. Summary Statistics for COPCs by Area and Media - Metals

South Park Marina Site, Seattle, Washington

Matrix	Analyte	Number of Locations	Number of Samples	Number of Samples with Detected Conc.	Frequency of Detection	Units	Min. Detected Conc.	Median Detected Conc.	Max. Detected Conc.	Location of Max. Detection	Depth bgs of Max. Detection	Date of Max. Detection	Geologic Unit of Max. Detection (soil)	Hydrostratigraphic Unit of Max. Detection (groundwater)	Proposed RI CUL	Number of Detected Exceedances by Sample	Number of Detected Exceedances by Location	Frequency of Exceedance by Sample	Frequency of Exceedance by Location	Max. Exceedance Factor
Pond Area (within the South Area)																				
Soil Vadose	Arsenic	16	23	23	100%	mg/kg	0.89	4.5	20.7	MW-05	0 - 1 ft	3/5/2021	Fill	--	7.3	5	4	22%	25%	2.8
	Barium	1	1	1	100%	mg/kg	551	551	551	SB-42	3.5 - 4.5 ft	9/22/2022	Fill	--	250	1	1	100%	100%	2.2
	Cadmium	16	23	23	100%	mg/kg	0.09	1.23	43.8	SB-42	3.5 - 4.5 ft	9/22/2022	Fill	--	5.1	6	5	26%	31%	8.6
	Chromium	16	23	23	100%	mg/kg	6.04	33.9	465	SB-11	2.5 - 2.75 ft	9/28/2007	Fill	--	67	9	8	39%	50%	6.9
	Copper	16	23	23	100%	mg/kg	5.39	64.2	2470	SB-26	0 - 1 ft	3/4/2021	Fill	--	36	14	12	61%	75%	69
	Lead	16	23	23	100%	mg/kg	1.18	276	3180	SB-16	3.5 - 4 ft	10/1/2007	Fill	--	120	16	14	70%	88%	26
	Mercury	16	21	21	100%	mg/kg	0.006	1.8	29.5	SB-11	2.5 - 2.75 ft	9/28/2007	Fill	--	0.41	13	11	62%	69%	72
	Nickel	10	16	16	100%	mg/kg	4.34	14.4	44.4	MW-16	0 - 1 ft	9/23/2022	Fill	--	48	0	0	--	--	0.9
	Selenium	1	1	1	100%	mg/kg	9.46	9.46	9.46	SB-42	3.5 - 4.5 ft	9/22/2022	Fill	--	0.78	1	1	100%	100%	12
	Zinc	16	23	23	100%	mg/kg	30.6	191	1510	SB-16	3.5 - 4 ft	10/1/2007	Fill	--	100	16	14	70%	88%	15
	Tributyltin Ion	7	11	5	45%	mg/kg	0.000807	0.0186	0.582	SB-42	0 - 1 ft	9/22/2022	Fill	--	0.0039	4	4	36%	57%	149
Soil Saturated	Arsenic	15	32	30	94%	mg/kg	0.787	1.72	29.3	MW-04	10.5 - 11.5 ft	3/4/2021	Tidal Flat	--	7.3	3	3	9%	20%	4
	Barium	2	2	2	100%	mg/kg	31	33	35	SB-22	10 - 10 ft	7/27/2011	--	--	250	0	0	--	--	0.1
	Cadmium	15	32	24	75%	mg/kg	0.029	0.27	4.6	SB-42	10 - 11 ft	9/22/2022	Tidal Flat	--	5.1	0	0	--	--	0.9
	Chromium	15	32	32	100%	mg/kg	5.08	18.7	77.3	MW-05	6 - 7 ft	3/5/2021	Fill	--	67	1	1	3%	7%	1.1
	Copper	13	30	30	100%	mg/kg	5.43	11.4	209	SB-42	10 - 11 ft	9/22/2022	Tidal Flat	--	36	3	3	10%	23%	5.8
	Lead	15	32	32	100%	mg/kg	1.06	6.04	586	MW-05	6 - 7 ft	3/5/2021	Fill	--	120	4	4	13%	27%	4.9
	Mercury	14	25	19	76%	mg/kg	0.01	0.045	3.5	SB-42	10 - 11 ft	9/22/2022	Tidal Flat	--	0.41	2	2	8%	14%	8.5
	Nickel	10	26	26	100%	mg/kg	4.72	8.43	58.4	MW-05	26.5 - 28 ft	3/5/2021	Till	--	48	1	1	4%	10%	1.2
	Silver	5	6	4	67%	mg/kg	0.055	0.0575	0.07	SB-03	7 - 8 ft	9/27/2007	Fill	--	4.2	0	0	--	--	--
	Zinc	13	30	30	100%	mg/kg	15	26.3	418	MW-05	6 - 7 ft	3/5/2021	Fill	--	85	7	5	23%	38%	4.9
	Tributyltin Ion	7	28	8	29%	mg/kg	0.000562	0.00568	0.126	SB-42	10 - 11 ft	9/22/2022	Tidal Flat	--	0.0039	4	3	14%	43%	32
Groundwater	Arsenic, Total	9	16	16	100%	ug/L	0.267	2.1	14.8	MW-06	-	10/26/2022	--	Fill	8	1	1	6%	11%	1.9
	Arsenic, Dissolved	9	15	15	100%	ug/L	0.288	2.03	14.2	MW-06	-	10/26/2022	--	Fill	8	1	1	7%	11%	1.8
	Arsenic, Total by RP	4	4	1	25%	ug/L	0.69	0.69	0.69	MW-16D	-	3/23/2023	--	Alluvial	8	0	0	--	--	0.1
	Arsenic, Dissolved by RP	4	4	0	0%	--	--	--	--	--	--	--	--	--	8	0	0	--	--	--
	Cadmium, Total	9	16	5	31%	ug/L	0.017	0.221	0.466	MW-04	-	10/27/2022	--	Fill	1.2	0	0	--	--	0.4
	Cadmium, Dissolved	9	15	5	33%	ug/L	0.032	0.212	0.369	MW-04	-	10/27/2022	--	Fill	1.2	0	0	--	--	0.3
	Cadmium, Total by RP	4	4	4	100%	ug/L	0.028	0.145	0.251	MW-16	-	3/24/2023	--	Fill	1.2	0	0	--	--	0.2
	Cadmium, Dissolved by RP	4	4	3	75%	ug/L	0.118	0.173	0.252	MW-16	-	3/24/2023	--	Fill	1.2	0	0	--	--	0.2
	Chromium, Total	9	16	14	88%	ug/L	0.444	1.33	33.5	MW-06	-	10/26/2022	--	Fill	27	1	1	6%	11%	1.2
	Chromium, Dissolved	9	15	15	100%	ug/L	0.465	1.08	16.4	MW-06	-	10/26/2022	--	Fill	27	0	0	--	--	0.6
	Chromium, Total by RP	4	4	3	75%	ug/L	0.55	0.69	2.59	MW-05	-	3/23/2023	--	Fill	27	0	0	--	--	0.1
	Chromium, Dissolved by RP	4	4	4	100%	ug/L	0.38	0.625	2.21	MW-05	-	3/23/2023	--	Fill	27	0	0	--	--	0.1
	Copper, Total	9	16	13	81%	ug/L	0.662	3.76	17.6	MW-06	-	10/26/2022	--	Fill	3.1	8	5	50%	56%	5.7
	Copper, Dissolved	9	15	14	93%	ug/L	0.297	3.06	16.3	MW-06	-	10/26/2022	--	Fill	3.1	7	5	47%	56%	5.3
	Copper, Total by RP	4	4	4	100%	ug/L	0.48	3.15	8.98	MW-16	-	3/24/2023	--	Fill	3.1	2	2	50%	50%	2.9
	Copper, Dissolved by RP	4	4	4	100%	ug/L	0.28	2.94	8.98	MW-16	-	3/24/2023	--	Fill	3.1	1	1	25%	25%	2.9
	Lead, Total	9	16	10	63%	ug/L	0.13	0.376	2.44	MW-05	-	3/31/2021	--	Fill	8.1	0	0	--	--	0.3
	Lead, Dissolved	9	15	7	47%	ug/L	0.055	0.226	1.38	MW-05	-	3/23/2023	--	Fill	8.1	0	0	--	--	0.2
	Lead, Total by RP	4	4	3	75%	ug/L	0.223	0.514	2.37	MW-05	-	3/23/2023	--	Fill	8.1	0	0	--	--	0.3
	Lead, Dissolved by RP	4	4	3	75%	ug/L	0.071	0.493	1.55	MW-05	-	3/23/2023	--	Fill	8.1	0	0	--	--	0.2
	Mercury, Total	9	14	6	43%	ug/L	0.00084	0.00145	0.0156	MW-03	-	7/31/2008	--	Alluvial	0.025	0	0	--	--	0.6
	Mercury, Dissolved	9	12	5	42%	ug/L	0.001	0.0013	0.0019	MW-16	-	3/24/2023	--	Fill	0.025	0	0	--	--	0.1
	Nickel, Total	8	14	14	100%	ug/L	0.463	11.8	158	MW-06	-	10/26/2022	--	Fill	8.2	8	5	57%	63%	19
	Nickel, Dissolved	8	14	14	100%	ug/L	0.41	11.9	149	MW-06	-	10/26/2022	--	Fill	8.2	8	5	57%	63%	18
	Nickel, Total by RP	4	4	4	100%	ug/L	1.23	4.7	40.1	MW-16D	-	3/23/2023	--	Alluvial	8.2	1	1	25%	25%	4.9
	Nickel, Dissolved by RP	4	4	4	100%	ug/L	1.23	4.84	41.7	MW-16D	-	3/23/2023	--	Alluvial	8.2	1	1	25%	25%	5.1
	Silver, Total	1	2	1	50%	ug/L	0.01	0.01	0.01	MW-03	-	10/8/2007	--	Alluvial	0.91	0	0	--	--	--
	Silver, Dissolved	1	1	0	0%	--	--	--	--	--	--	--	--	--	0.91	0	0	--	--	--
	Zinc, Total	9	16	15	94%	ug/L	2.22	11.4	1830	MW-05	-	3/31/2021	--	Fill	81	2	2	13%	22%	23
	Zinc, Dissolved	9	15	15	100%	ug/L	2.11	16.3	1490	MW-05	-	3/31/2021	--	Fill	81	1	1	7%	11%	18
	Zinc, Total by RP	4	4	4	100%	ug/L	5.03	14.5	39.1	MW-16	-	3/24/2023	--	Fill	81	0	0	--	--	0.5
	Zinc, Dissolved by RP	4	4	4	100%	ug/L	4.96	13.8	37.9	MW-16	-	3/24/2023	--	Fill	81	0	0	--	--	0.5
	Tributyltin Ion	8	11	0	0%	--	--	--	--	--	--	--	--	--	0.0052	0	0	--	--	--

Table J.1. Summary Statistics for COPCs by Area and Media - Metals

South Park Marina Site, Seattle, Washington

Matrix	Analyte	Number of Locations	Number of Samples	Number of Samples with Detected Conc.	Frequency of Detection	Units	Min. Detected Conc.	Median Detected Conc.	Max. Detected Conc.	Location of Max. Detection	Depth bgs of Max. Detection	Date of Max. Detection	Geologic Unit of Max. Detection (soil)	Hydrostratigraphic Unit of Max. Detection (groundwater)	Proposed RI CUL	Number of Detected Exceedances by Sample	Number of Detected Exceedances by Location	Frequency of Exceedance by Sample	Frequency of Exceedance by Location	Max. Exceedance Factor
South Area (including Pond Area)																				
Soil Vadose	Arsenic	27	42	42	100%	mg/kg	0.89	4.06	20.7	MW-05	0 - 1 ft	3/5/2021	Fill	--	7.3	9	8	21%	30%	2.8
	Barium	2	2	2	100%	mg/kg	310	430	551	SB-42	3.5 - 4.5 ft	9/22/2022	Fill	--	250	2	2	100%	100%	2.2
	Cadmium	27	42	39	93%	mg/kg	0.087	1.2	115	SB-37	1 - 2 ft	9/13/2022	Fill	--	5.1	9	8	21%	30%	23
	Chromium	27	42	42	100%	mg/kg	6.04	33.5	615	SB-39	5 - 6 ft	9/13/2022	Fill	--	67	15	13	36%	48%	9.2
	Copper	27	42	42	100%	mg/kg	5.39	46.8	2470	SB-26	0 - 1 ft	3/4/2021	Fill	--	36	22	20	52%	74%	69
	Lead	27	42	42	100%	mg/kg	0.953	210	4640	SB-38	0 - 1 ft	9/12/2022	Fill	--	120	27	21	64%	78%	39
	Mercury	25	39	39	100%	mg/kg	0.006	0.392	29.5	SB-11	2.5 - 2.75 ft	9/28/2007	Fill	--	0.41	19	16	49%	64%	72
	Nickel	20	34	34	100%	mg/kg	4.34	11.1	441	SB-39	5 - 6 ft	9/13/2022	Fill	--	48	1	1	3%	5%	9.2
	Silver	9	10	8	80%	mg/kg	0.038	0.1	0.299	SB-11	2.5 - 2.75 ft	9/28/2007	Fill	--	0.61	0	0	--	--	0.5
	Zinc	27	42	42	100%	mg/kg	15.6	188	41800	SB-37	1 - 2 ft	9/13/2022	Fill	--	100	28	22	67%	81%	418
	Tributyltin Ion	15	26	14	54%	mg/kg	0.000478	0.0104	0.874	SB-39	5 - 6 ft	9/13/2022	Fill	--	0.0039	9	9	35%	60%	224
Soil Saturated	Arsenic	27	44	42	95%	mg/kg	0.672	1.78	29.3	MW-04	10.5 - 11.5 ft	3/4/2021	Tidal Flat	--	7.3	4	4	9%	15%	4
	Barium	2	2	2	100%	mg/kg	31	33	35	SB-22	10 - 10 ft	7/27/2011	--	--	250	0	0	--	--	0.1
	Cadmium	27	44	29	66%	mg/kg	0.021	0.17	4.6	SB-42	10 - 11 ft	9/22/2022	Tidal Flat	--	5.1	0	0	--	--	0.9
	Chromium	27	44	44	100%	mg/kg	5.08	10.7	77.3	MW-05	6 - 7 ft	3/5/2021	Fill	--	67	1	1	2%	4%	1.1
	Copper	25	42	42	100%	mg/kg	5.43	11.2	209	SB-42	10 - 11 ft	9/22/2022	Tidal Flat	--	36	4	4	10%	16%	5.8
	Lead	27	44	44	100%	mg/kg	1.06	3.44	586	MW-05	6 - 7 ft	3/5/2021	Fill	--	120	4	4	9%	15%	4.9
	Mercury	26	43	35	81%	mg/kg	0.004	0.046	3.5	SB-42	10 - 11 ft	9/22/2022	Tidal Flat	--	0.41	2	2	5%	8%	8.5
	Nickel	17	33	33	100%	mg/kg	4.48	8.25	58.4	MW-05	26.5 - 28 ft	3/5/2021	Till	--	48	1	1	3%	6%	1.2
	Silver	10	11	9	82%	mg/kg	0.049	0.058	0.145	SB-05	8 - 9 ft	9/27/2007	Fill	--	4.2	0	0	--	--	--
	Zinc	25	42	42	100%	mg/kg	14.1	25.2	418	MW-05	6 - 7 ft	3/5/2021	Fill	--	85	7	5	17%	20%	4.9
	Tributyltin Ion	14	38	11	29%	mg/kg	0.000562	0.00344	0.126	SB-42	10 - 11 ft	9/22/2022	Tidal Flat	--	0.0039	4	3	11%	21%	32
Groundwater	Arsenic, Total	11	19	18	95%	ug/L	0.267	2.1	14.8	MW-06	-	10/26/2022	--	Fill	8	2	2	11%	18%	1.9
	Arsenic, Dissolved	11	17	16	94%	ug/L	0.288	2.59	14.2	MW-06	-	10/26/2022	--	Fill	8	2	2	12%	18%	1.8
	Arsenic, Total by RP	4	4	1	25%	ug/L	0.69	0.69	0.69	MW-16D	-	3/23/2023	--	Alluvial	8	0	0	--	--	0.1
	Arsenic, Dissolved by RP	4	4	0	0%	--	--	--	--	--	--	--	--	--	8	0	0	--	--	--
	Cadmium, Total	11	19	7	37%	ug/L	0.015	0.091	0.466	MW-04	-	10/27/2022	--	Fill	1.2	0	0	--	--	0.4
	Cadmium, Dissolved	11	17	6	35%	ug/L	0.032	0.158	0.369	MW-04	-	10/27/2022	--	Fill	1.2	0	0	--	--	0.3
	Cadmium, Total by RP	4	4	4	100%	ug/L	0.028	0.145	0.251	MW-16	-	3/24/2023	--	Fill	1.2	0	0	--	--	0.2
	Cadmium, Dissolved by RP	4	4	3	75%	ug/L	0.118	0.173	0.252	MW-16	-	3/24/2023	--	Fill	1.2	0	0	--	--	0.2
	Chromium, Total	11	19	16	84%	ug/L	0.444	1.44	40.4	MW-02	-	10/9/2007	--	Alluvial	27	2	2	11%	18%	1.5
	Chromium, Dissolved	11	17	17	100%	ug/L	0.465	1.08	25.2	MW-02	-	10/9/2007	--	Alluvial	27	0	0	--	--	0.9
	Chromium, Total by RP	4	4	3	75%	ug/L	0.55	0.69	2.59	MW-05	-	3/23/2023	--	Fill	27	0	0	--	--	0.1
	Chromium, Dissolved by RP	4	4	4	100%	ug/L	0.38	0.625	2.21	MW-05	-	3/23/2023	--	Fill	27	0	0	--	--	0.1
	Copper, Total	11	19	16	84%	ug/L	0.662	3.77	17.6	MW-06	-	10/26/2022	--	Fill	3.1	11	7	58%	64%	5.7
	Copper, Dissolved	11	17	16	94%	ug/L	0.297	3.35	16.3	MW-06	-	10/26/2022	--	Fill	3.1	9	7	53%	64%	5.3
	Copper, Total by RP	4	4	4	100%	ug/L	0.48	3.15	8.98	MW-16	-	3/24/2023	--	Fill	3.1	2	2	50%	50%	2.9
	Copper, Dissolved by RP	4	4	4	100%	ug/L	0.28	2.94	8.98	MW-16	-	3/24/2023	--	Fill	3.1	1	1	25%	25%	2.9
	Lead, Total	11	19	12	63%	ug/L	0.046	0.26	2.44	MW-05	-	3/31/2021	--	Fill	8.1	0	0	--	--	0.3
	Lead, Dissolved	11	17	8	47%	ug/L	0.021	0.205	1.38	MW-05	-	3/23/2023	--	Fill	8.1	0	0	--	--	0.2
	Lead, Total by RP	4	4	3	75%	ug/L	0.223	0.514	2.37	MW-05	-	3/23/2023	--	Fill	8.1	0	0	--	--	0.3
	Lead, Dissolved by RP	4	4	3	75%	ug/L	0.071	0.493	1.55	MW-05	-	3/23/2023	--	Fill	8.1	0	0	--	--	0.2
	Mercury, Total	11	18	8	44%	ug/L	0.00084	0.00136	0.0156	MW-03	-	7/31/2008	--	Alluvial	0.025	0	0	--	--	0.6
	Mercury, Dissolved	11	14	6	43%	ug/L	0.001	0.0013	0.0019	MW-16	-	3/24/2023	--	Fill	0.025	0	0	--	--	0.1
	Nickel, Total	9	15	15	100%	ug/L	0.463	11.5	158	MW-06	-	10/26/2022	--	Fill	8.2	8	5	53%	56%	19
	Nickel, Dissolved	9	15	15	100%	ug/L	0.41	11.2	149	MW-06	-	10/26/2022	--	Fill	8.2	8	5	53%	56%	18
	Nickel, Total by RP	4	4	4	100%	ug/L	1.23	4.7	40.1	MW-16D	-	3/23/2023	--	Alluvial	8.2	1	1	25%	25%	4.9
	Nickel, Dissolved by RP	4	4	4	100%	ug/L	1.23	4.84	41.7	MW-16D	-	3/23/2023	--	Alluvial	8.2	1	1	25%	25%	5.1
	Silver, Total	2	4	2	50%	ug/L	0.005	0.0075	0.01	MW-03	-	10/8/2007	--	Alluvial	0.91	0	0	--	--	--
	Silver, Dissolved	2	2	0	0%	--	--	--	--	--	--	--	--	--	0.91	0	0	--	--	--
	Zinc, Total	11	19	18	95%	ug/L	1.96	7.28	1830	MW-05	-	3/31/2021	--	Fill	81	2	2	11%	18%	23
	Zinc, Dissolved	11	17	17	100%	ug/L	2.11	9.94	1490	MW-05	-	3/31/2021	--	Fill	81	1	1	6%	9%	18
	Zinc, Total by RP	4	4	4	100%	ug/L	5.03	14.5	39.1	MW-16	-	3/24/2023	--	Fill	81	0	0	--	--	0.5
	Zinc, Dissolved by RP	4	4	4	100%	ug/L	4.96	13.8	37.9	MW-16	-	3/24/2023	--	Fill	81	0	0	--	--	0.5
	Tributyltin Ion	9	12	0	0%	--	--	--	--	--	--	--	--	--	0.0052	0	0	--	--	--

Table J.1. Summary Statistics for COPCs by Area and Media - Metals

South Park Marina Site, Seattle, Washington

Matrix	Analyte	Number of Locations	Number of Samples	Number of Samples with Detected Conc.	Frequency of Detection	Units	Min. Detected Conc.	Median Detected Conc.	Max. Detected Conc.	Location of Max. Detection	Depth bgs of Max. Detection	Date of Max. Detection	Geologic Unit of Max. Detection (soil)	Hydrostratigraphic Unit of Max. Detection (groundwater)	Proposed RI CUL	Number of Detected Exceedances by Sample	Number of Detected Exceedances by Location	Frequency of Exceedance by Sample	Frequency of Exceedance by Location	Max. Exceedance Factor
Central Area																				
Soil Vadose	Arsenic	21	39	39	100%	mg/kg	1.33	3.59	27.4	MW-14	0 - 1 ft	3/10/2021	Fill	--	7.3	5	5	13%	24%	3.8
	Barium	1	1	1	100%	mg/kg	146	146	146	MW-17	0 - 1 ft	9/14/2022	Fill	--	250	0	0	--	--	0.6
	Cadmium	21	39	32	82%	mg/kg	0.04	0.265	1.25	MW-17	0 - 1 ft	9/14/2022	Fill	--	5.1	0	0	--	--	0.2
	Chromium	21	39	39	100%	mg/kg	5.76	10.9	34.3	MW-14	0 - 1 ft	3/10/2021	Fill	--	67	0	0	--	--	0.5
	Copper	21	39	39	100%	mg/kg	8.39	25.2	292	MW-14	0 - 1 ft	3/10/2021	Fill	--	36	14	13	36%	62%	8.1
	Lead	21	39	39	100%	mg/kg	1.18	27.5	384	MW-17	0 - 1 ft	9/14/2022	Fill	--	120	5	5	13%	24%	3.2
	Mercury	21	33	32	97%	mg/kg	0.00523	0.0381	0.302	MW-12	3 - 5 ft	3/3/2021	Fill	--	0.41	0	0	--	--	0.7
	Nickel	21	39	39	100%	mg/kg	4.87	8.9	52	MW-14	0 - 1 ft	3/10/2021	Fill	--	48	1	1	3%	5%	1.1
	Silver	1	1	0	0%	--	--	--	--	--	--	--	--	--	0.61	0	0	--	--	--
	Zinc	21	39	39	100%	mg/kg	17.3	51.1	287	MW-17	0 - 1 ft	9/14/2022	Fill	--	100	5	5	13%	24%	2.9
	Tributyltin Ion	22	38	23	61%	mg/kg	0.00057	0.00786	1.12	SB-27	0 - 1 ft	3/9/2021	Fill	--	0.0039	15	12	39%	55%	287
Soil Saturated	Arsenic	18	23	23	100%	mg/kg	0.59	1.78	4.73	MW-11D	10 - 11 ft	9/15/2022	Fill	--	7.3	0	0	--	--	0.7
	Cadmium	18	23	7	30%	mg/kg	0.029	0.097	0.17	SB-27	8 - 9 ft	3/9/2021	Alluvial	--	5.1	0	0	--	--	--
	Chromium	18	23	23	100%	mg/kg	4.4	7.7	69.2	SB-27	8 - 9 ft	3/9/2021	Alluvial	--	67	1	1	4%	6%	1
	Copper	18	23	23	100%	mg/kg	5.9	10.6	53.5	MW-11D	10 - 11 ft	9/15/2022	Fill	--	36	2	2	9%	11%	1.5
	Lead	18	23	23	100%	mg/kg	1.06	1.46	16.3	SB-10	14 - 15 ft	9/28/2007	Tidal Flat	--	120	0	0	--	--	0.1
	Mercury	16	18	8	44%	mg/kg	0.007	0.0127	0.048	SB-04	8 - 9 ft	9/27/2007	Fill	--	0.41	0	0	--	--	0.1
	Nickel	14	19	19	100%	mg/kg	4.16	6.91	14.7	SB-27	8 - 9 ft	3/9/2021	Alluvial	--	48	0	0	--	--	0.3
	Silver	4	4	4	100%	mg/kg	0.06	0.086	0.116	SB-10	14 - 15 ft	9/28/2007	Tidal Flat	--	4.2	0	0	--	--	--
	Zinc	18	23	23	100%	mg/kg	14.2	19.4	53.2	SB-27	8 - 9 ft	3/9/2021	Alluvial	--	85	0	0	--	--	0.6
	Tributyltin Ion	12	14	1	7%	mg/kg	0.01	0.01	0.01	SB-27	8 - 9 ft	3/9/2021	Alluvial	--	0.0039	1	1	7%	8%	2.6
Groundwater	Arsenic, Total	15	31	28	90%	ug/L	0.559	3.48	30.4	MW-10	-	10/31/2022	--	Fill	8	6	5	19%	33%	3.8
	Arsenic, Dissolved	15	30	27	90%	ug/L	0.254	3.46	22.4	MW-10	-	10/31/2022	--	Fill	8	6	5	20%	33%	2.8
	Arsenic, Total by RP	6	7	1	14%	ug/L	1.03	1.03	1.03	MW-10	-	3/22/2023	--	Fill	8	0	0	--	--	0.1
	Arsenic, Dissolved by RP	6	7	0	0%	--	--	--	--	--	--	--	--	--	8	0	0	--	--	--
	Cadmium, Total	15	31	5	16%	ug/L	0.013	0.036	0.104	MW-12	-	3/30/2021	--	Fill	1.2	0	0	--	--	0.1
	Cadmium, Dissolved	15	30	3	10%	ug/L	0.026	0.076	0.114	MW-12	-	3/30/2021	--	Fill	1.2	0	0	--	--	0.1
	Cadmium, Total by RP	6	7	4	57%	ug/L	0.025	0.0415	0.09	MW-08	-	3/22/2023	--	Fill	1.2	0	0	--	--	0.1
	Cadmium, Dissolved by RP	6	7	4	57%	ug/L	0.023	0.0375	0.075	MW-08	-	3/22/2023	--	Fill	1.2	0	0	--	--	0.1
	Chromium, Total	15	31	22	71%	ug/L	0.342	1.96	5760	MW-10	-	3/22/2023	--	Fill	27	4	2	13%	13%	213
	Chromium, Dissolved	15	30	18	60%	ug/L	0.289	1.61	28.6	MW-10	-	10/31/2022	--	Fill	27	1	1	3%	7%	1.1
	Chromium, Total by RP	6	7	5	71%	ug/L	0.69	0.87	1370	MW-10	-	3/22/2023	--	Fill	27	2	2	29%	33%	51
	Chromium, Dissolved by RP	6	7	6	86%	ug/L	0.31	0.63	94.6	MW-11	-	3/23/2023	--	Fill	27	1	1	14%	17%	3.5
	Copper, Total	15	31	30	97%	ug/L	1.27	4.56	18.8	MW-10	-	3/22/2023	--	Fill	3.1	22	13	71%	87%	6.1
	Copper, Dissolved	15	30	30	100%	ug/L	1.4	3.97	35.5	MW-10	-	10/31/2022	--	Fill	3.1	19	12	63%	80%	11
	Copper, Total by RP	6	7	6	86%	ug/L	1.26	2.12	6.05	MW-10	-	3/22/2023	--	Fill	3.1	2	2	29%	33%	2
	Copper, Dissolved by RP	6	7	7	100%	ug/L	0.97	1.26	3.62	MW-11	-	3/23/2023	--	Fill	3.1	1	1	14%	17%	1.2
	Lead, Total	15	31	11	35%	ug/L	0.07	0.754	4.67	MW-15	-	3/30/2021	--	Fill	8.1	0	0	--	--	0.6
	Lead, Dissolved	15	30	10	33%	ug/L	0.052	0.16	1.99	MW-15	-	3/30/2021	--	Fill	8.1	0	0	--	--	0.2
	Lead, Total by RP	6	7	3	43%	ug/L	0.052	0.716	1.44	MW-10	-	3/22/2023	--	Fill	8.1	0	0	--	--	0.2
	Lead, Dissolved by RP	6	7	1	14%	ug/L	0.33	0.33	0.33	MW-11	-	3/23/2023	--	Fill	8.1	0	0	--	--	--
	Mercury, Total	15	22	11	50%	ug/L	0.00083	0.0015	0.0059	MW-15	-	10/24/2022	--	Fill	0.025	0	0	--	--	0.2
	Mercury, Dissolved	15	20	12	60%	ug/L	0.0008	0.00105	0.0028	MW-15	-	10/24/2022	--	Fill	0.025	0	0	--	--	0.1
	Nickel, Total	14	29	28	97%	ug/L	0.366	3.67	207	MW-10	-	10/31/2022	--	Fill	8.2	7	4	24%	29%	25
	Nickel, Dissolved	14	29	29	100%	ug/L	0.272	3.49	206	MW-10	-	10/31/2022	--	Fill	8.2	7	4	24%	29%	25
	Nickel, Total by RP	6	7	7	100%	ug/L	1.27	7.9	21.2	MW-10	-	3/22/2023	--	Fill	8.2	2	1	29%	17%	2.6
	Nickel, Dissolved by RP	6	7	7	100%	ug/L	1.19	6.88	10.1	MW-10	-	3/24/2023	--	Fill	8.2	3	2	43%	33%	1.2
	Silver, Total	1	2	0	0%	--	--	--	--	--	--	--	--	--	0.91	0	0	--	--	--
	Silver, Dissolved	1	1	0	0%	--	--	--	--	--	--	--	--	--	0.91	0	0	--	--	--
	Zinc, Total	15	31	27	87%	ug/L	0.967	4.7	22.7	MW-07	-	10/27/2022	--	Fill	81	0	0	--	--	0.3
	Zinc, Dissolved	15	30	27	90%	ug/L	0.795	3.85	24.8	MW-07	-	10/27/2022	--	Fill	81	0	0	--	--	0.3
	Zinc, Total by RP	6	7	6	86%	ug/L	0.7	3.27	5.48	MW-07	-	3/23/2023	--	Fill	81	0	0	--	--	0.1
	Zinc, Dissolved by RP	6	7	5	71%	ug/L	0.7	3.05	5.2	MW-07	-	3/23/2023	--	Fill	81	0	0	--	--	0.1
	Tributyltin Ion	14	19	0	0%	--	--	--	--	--	--	--	--	--	0.0052	0	0	--	--	--

Table J.1. Summary Statistics for COPCs by Area and Media - Metals

South Park Marina Site, Seattle, Washington

Matrix	Analyte	Number of Locations	Number of Samples	Number of Samples with Detected Conc.	Frequency of Detection	Units	Min. Detected Conc.	Median Detected Conc.	Max. Detected Conc.	Location of Max. Detection	Depth bgs of Max. Detection	Date of Max. Detection	Geologic Unit of Max. Detection (soil)	Hydrostratigraphic Unit of Max. Detection (groundwater)	Proposed RI CUL	Number of Detected Exceedances by Sample	Number of Detected Exceedances by Location	Frequency of Exceedance by Sample	Frequency of Exceedance by Location	Max. Exceedance Factor
Northwest Area																				
Soil Vadose	Arsenic	6	9	9	100%	mg/kg	2.23	3.41	6.42	SB-31	0 - 1 ft	3/1/2021	Fill	--	7.3	0	0	--	--	0.9
	Barium	1	1	1	100%	mg/kg	42.5	42.5	42.5	MW-20	0.5 - 1.5 ft	9/14/2022	Fill	--	250	0	0	--	--	0.2
	Cadmium	6	9	6	67%	mg/kg	0.04	0.1	0.24	SB-30	3 - 5 ft	3/1/2021	Fill	--	5.1	0	0	--	--	--
	Chromium	6	9	9	100%	mg/kg	6.79	9.83	25.1	SB-30	0 - 1 ft	3/1/2021	Fill	--	67	0	0	--	--	0.4
	Copper	6	9	9	100%	mg/kg	9.65	12	37.4	SB-31	0 - 1 ft	3/1/2021	Fill	--	36	1	1	11%	17%	1
	Lead	6	9	9	100%	mg/kg	1.67	6.25	27.2	SB-31	3 - 5 ft	3/1/2021	Fill	--	120	0	0	--	--	0.2
	Mercury	6	9	8	89%	mg/kg	0.0161	0.0251	0.278	SB-30	0 - 1 ft	3/1/2021	Fill	--	0.41	0	0	--	--	0.7
	Nickel	6	9	9	100%	mg/kg	5.66	8.34	38.5	SB-30	0 - 1 ft	3/1/2021	Fill	--	48	0	0	--	--	0.8
	Silver	1	1	0	0%	--	--	--	--	--	--	--	--	--	0.61	0	0	--	--	--
	Zinc	6	9	9	100%	mg/kg	16.7	30.2	117	SB-31	3 - 5 ft	3/1/2021	Fill	--	100	1	1	11%	17%	1.2
Soil Saturated	Arsenic	3	5	5	100%	mg/kg	1.53	2.27	4.78	SB-31	10 - 11 ft	3/1/2021	Fill	--	7.3	0	0	--	--	0.7
	Cadmium	3	5	3	60%	mg/kg	0.05	0.05	0.12	SB-31	10 - 11 ft	3/1/2021	Fill	--	5.1	0	0	--	--	--
	Chromium	3	5	5	100%	mg/kg	8.61	11.1	27.8	SB-31	10 - 11 ft	3/1/2021	Fill	--	67	0	0	--	--	0.4
	Copper	3	5	5	100%	mg/kg	10.1	12.1	27.3	SB-31	10 - 11 ft	3/1/2021	Fill	--	36	0	0	--	--	0.8
	Lead	3	5	5	100%	mg/kg	1.27	1.39	4.42	SB-31	10 - 11 ft	3/1/2021	Fill	--	120	0	0	--	--	--
	Mercury	3	4	3	75%	mg/kg	0.01	0.016	0.0285	SB-31	13 - 14.5 ft	3/1/2021	Tidal Flat	--	0.41	0	0	--	--	0.1
	Nickel	3	5	5	100%	mg/kg	6.38	10.8	20.7	SB-31	10 - 11 ft	3/1/2021	Fill	--	48	0	0	--	--	0.4
	Zinc	3	5	5	100%	mg/kg	17.9	22.2	35.3	SB-31	10 - 11 ft	3/1/2021	Fill	--	85	0	0	--	--	0.4
Groundwater	Arsenic, Total	4	5	5	100%	ug/L	0.837	1.51	8.52	MW-13D	-	10/26/2022	--	Alluvial	8	1	1	20%	25%	1.1
	Arsenic, Dissolved	4	5	5	100%	ug/L	0.784	1.57	8.33	MW-13D	-	10/26/2022	--	Alluvial	8	1	1	20%	25%	1
	Cadmium, Total	4	5	0	0%	--	--	--	--	--	--	--	--	--	1.2	0	0	--	--	--
	Cadmium, Dissolved	4	5	1	20%	ug/L	0.053	0.053	0.053	MW-13	-	3/31/2021	--	Fill	1.2	0	0	--	--	--
	Chromium, Total	4	5	3	60%	ug/L	0.728	1.52	3.28	MW-13	-	10/26/2022	--	Fill	27	0	0	--	--	0.1
	Chromium, Dissolved	4	5	5	100%	ug/L	0.385	1.03	3.46	MW-22	-	10/24/2022	--	Fill	27	0	0	--	--	0.1
	Copper, Total	4	5	4	80%	ug/L	1.03	3.56	4.62	MW-13	-	10/26/2022	--	Fill	3.1	2	2	40%	50%	1.5
	Copper, Dissolved	4	5	5	100%	ug/L	0.799	3.84	5.45	MW-13	-	10/26/2022	--	Fill	3.1	3	2	60%	50%	1.8
	Lead, Total	4	5	1	20%	ug/L	0.528	0.528	0.528	MW-22	-	10/24/2022	--	Fill	8.1	0	0	--	--	0.1
	Lead, Dissolved	4	5	1	20%	ug/L	0.061	0.061	0.061	MW-13	-	3/31/2021	--	Fill	8.1	0	0	--	--	--
	Mercury, Total	4	5	3	60%	ug/L	0.0012	0.0015	0.0022	MW-22	-	10/24/2022	--	Fill	0.025	0	0	--	--	0.1
	Mercury, Dissolved	4	5	4	80%	ug/L	0.00099	0.00145	0.0037	MW-13	-	10/26/2022	--	Fill	0.025	0	0	--	--	0.1
	Nickel, Total	4	5	5	100%	ug/L	1.6	3.63	5.86	MW-13	-	3/31/2021	--	Fill	8.2	0	0	--	--	0.7
	Nickel, Dissolved	4	5	5	100%	ug/L	2.01	4.25	6.23	MW-13	-	3/31/2021	--	Fill	8.2	0	0	--	--	0.8
	Zinc, Total	4	5	4	80%	ug/L	0.888	6.38	9.47	MW-13D	-	10/26/2022	--	Alluvial	81	0	0	--	--	0.1
	Zinc, Dissolved	4	5	5	100%	ug/L	1.24	7.59	9.64	MW-13D	-	10/26/2022	--	Alluvial	81	0	0	--	--	0.1
	Tributyltin Ion	4	4	0	0%	--	--	--	--	--	--	--	--	--	0.0052	0	0	--	--	--

Notes:

bgs - below ground surface
mg/kg - milligrams per kilogram
-- - not detected or no detections exceed Proposed RI CUL
Blank - Not applicable for the media
Vadose soil is soil between 0 and 6 ft bgs.
Saturated soil is soil at depths equal to or greater than 6 ft bgs.
RP - Prepared using reductive precipitation
ft - feet
ug/L - micrograms per liter
Proposed RI CUL - Proposed Remedial Investigation Cleanup Level; refer to Section 6.2.
Max. Exceedanace Factor - Maximum detected concentration divided by the Proposed RI CUL

Table J.2. Summary Statistics for COPCs by Area and Media - PCBs

South Park Marina Site, Seattle, Washington

Matrix	Analyte	Number of Locations	Number of Samples	Number of Samples with Detected Conc.	Frequency of Detection	Units	Min. Detected Conc.	Median Detected Conc.	Max. Detected Conc.	Location of Max. Detection	Depth bgs of Max. Detection (soil)	Geologic Unit of Max. Detection (soil)	Date of Max. Detection	Hydrostratigraphic Unit of Max. Detection (groundwater)	Proposed RI CUL	Number of Detected Exceedances by Sample	Number of Detected Exceedances by Location	Frequency of Exceedance by Sample	Frequency of Exceedance by Location	Max. Exceedance Factor
South Area (including Pond Area)																				
Vadose Soil	Total PCB Aroclors (ND = 0)	40	58	51	88%	mg/kg	8.40E-03	6.50E+00	5.00E+01	SB-42	0 - 1 ft	Fill	09/22/22	--	3.60E-02	50	35	86%	88%	1,389
	Total PCB Congeners (ND = 0)	14	14	14	100%	mg/kg	7.28E-04	5.98E+00	1.07E+02	B-04	5 - 6 ft	Fill	11/17/17	--	1.80E-04	14	14	100%	100%	594,444
	Total PCB TEQ (ND = 0)	14	14	14	100%	mg/kg	3.32E-10	2.27E-04	1.92E-03	B-04	5 - 6 ft	Fill	11/17/17	--	7.00E-07	13	13	93%	93%	2,743
Saturated Soil	Total PCB Aroclors (ND = 0)	32	69	42	61%	mg/kg	4.50E-03	1.76E-01	1.31E+02	B-02	6.5 - 7 ft	Fill	11/17/17	--	3.60E-02	30	20	43%	63%	3,639
	Total PCB Congeners (ND = 0)	7	8	8	100%	mg/kg	5.69E-06	1.54E+01	1.10E+02	SB-42	6 - 8 ft	Fill	09/22/22	--	1.80E-04	7	6	88%	86%	611,111
	Total PCB TEQ (ND = 0)	7	8	7	88%	mg/kg	2.47E-05	4.71E-04	2.51E-03	B-02	6.5 - 7 ft	Fill	11/17/17	--	7.00E-07	7	6	88%	86%	3,586
Groundwater	Total PCB Aroclors (ND = 0)	11	17	9	53%	ug/L	2.00E-02	1.70E-01	1.70E+01	MW-05	-	--	10/26/22	Fill	3.50E-03	9	5	53%	45%	4,857
	Total PCB Congeners (ND = 0)	2	2	2	100%	ug/L	1.53E-01	2.28E-01	3.04E-01	MW-05	-	--	05/27/21	Fill	4.20E-04	2	2	100%	100%	724
	Total PCB TEQ (ND = 0)	2	2	2	100%	ug/L	2.66E-06	3.70E-06	4.73E-06	MW-05	-	--	05/27/21	Fill	1.50E-07	2	2	100%	100%	31
Pond Area (within the South Area)																				
Vadose Soil	Total PCB Aroclors (ND = 0)	25	37	36	97%	mg/kg	8.40E-03	7.45E+00	5.00E+01	SB-42	0 - 1 ft	Fill	9/22/22	--	3.60E-02	35	24	95%	96%	1,389
	Total PCB Congeners (ND = 0)	8	8	8	100%	mg/kg	5.65E+00	1.02E+01	1.07E+02	B-04	5 - 6 ft	Fill	11/17/17	--	1.80E-04	8	8	100%	100%	594,444
	Total PCB TEQ (ND = 0)	8	8	8	100%	mg/kg	1.51E-04	3.58E-04	1.92E-03	B-04	5 - 6 ft	Fill	11/17/17	--	7.00E-07	8	8	100%	100%	2,743
Saturated Soil	Total PCB Aroclors (ND = 0)	20	49	34	69%	mg/kg	4.50E-03	1.24E+00	1.31E+02	B-02	6.5 - 7 ft	Fill	11/17/17	--	3.60E-02	29	19	59%	95%	3,639
	Total PCB Congeners (ND = 0)	7	8	8	100%	mg/kg	5.69E-06	1.54E+01	1.10E+02	SB-42	6 - 8 ft	Fill	9/22/22	--	1.80E-04	7	6	88%	86%	611,111
	Total PCB TEQ (ND = 0)	7	8	7	88%	mg/kg	2.47E-05	4.71E-04	2.51E-03	B-02	6.5 - 7 ft	Fill	11/17/17	--	7.00E-07	7	6	88%	86%	3,586
Groundwater	Total PCB Aroclors (ND = 0)	9	15	9	60%	ug/L	2.00E-02	1.70E-01	1.70E+01	MW-05	-	--	10/26/22	Fill	3.50E-03	9	5	60%	56%	4,857
	Total PCB Congeners (ND = 0)	2	2	2	100%	ug/L	1.53E-01	2.28E-01	3.04E-01	MW-05	-	--	5/27/21	Fill	4.20E-04	2	2	100%	100%	724
	Total PCB TEQ (ND = 0)	2	2	2	100%	ug/L	2.66E-06	3.70E-06	4.73E-06	MW-05	-	--	5/27/21	Fill	1.50E-07	2	2	100%	100%	31
Central Area																				
Vadose Soil	Total PCB Aroclors (ND = 0)	49	61	50	82%	mg/kg	9.00E-04	6.62E-02	6.60E+01	SS-38	0 - 1 ft	Fill	11/17/17	--	3.60E-02	35	34	57%	69%	1,833
	Total PCB Congeners (ND = 0)	33	34	34	100%	mg/kg	4.82E-03	1.03E-01	7.65E+01	SS-33	0 - 1.5 ft	Fill	11/17/17	--	1.80E-04	34	33	100%	100%	425,000
	Total PCB TEQ (ND = 0)	33	34	34	100%	mg/kg	1.20E-09	3.08E-06	1.30E-03	SS-33	0 - 1.5 ft	Fill	11/17/17	--	7.00E-07	26	25	76%	76%	1,857
Saturated Soil	Total PCB Aroclors (ND = 0)	20	26	7	27%	mg/kg	8.00E-04	5.30E-03	4.60E-02	SB-10	14 - 15 ft	Tidal Flat	09/28/07	--	3.60E-02	1	1	4%	5%	1.3
	Total PCB Congeners (ND = 0)	2	2	2	100%	mg/kg	9.05E-06	3.72E-05	6.53E-05	MW-19D	10 - 11 ft	Alluvial	09/16/22	--	1.80E-04	0	0	--	--	0.4
	Total PCB TEQ (ND = 0)	2	2	0	0%	--	--	--	--	--	--	--	--	--	7.00E-07	0	0	--	--	--
Groundwater	Total PCB Aroclors (ND = 0)	15	25	4	16%	ug/L	3.00E-03	6.50E-03	1.00E-02	MW-07	-	--	03/29/21	Fill	3.50E-03	3	3	12%	20%	2.9
	Total PCB Congeners (ND = 0)	2	2	2	100%	ug/L	1.19E-03	2.04E-03	2.88E-03	MW-08	-	--	05/27/21	Fill	4.20E-04	2	2	100%	100%	6.9
	Total PCB TEQ (ND = 0)	2	2	2	100%	ug/L	7.21E-10	9.70E-10	1.22E-09	MW-08	-	--	05/27/21	Fill	1.50E-07	0	0	--	--	--
Northwest Area																				
Vadose Soil	Total PCB Aroclors (ND = 0)	6	9	4	44%	mg/kg	1.90E-03	2.75E-03	2.91E-02	SB-31	0 - 1 ft	Fill	03/01/21	--	3.60E-02	0	0	--	--	0.8
	Total PCB Congeners (ND = 0)	1	1	1	100%	mg/kg	2.26E-02	2.26E-02	2.26E-02	SB-31	0 - 1 ft	Fill	03/01/21	--	1.80E-04	1	1	100%	100%	126
	Total PCB TEQ (ND = 0)	1	1	1	100%	mg/kg	6.98E-07	6.98E-07	6.98E-07	SB-31	0 - 1 ft	Fill	03/01/21	--	7.00E-07	0	0	--	--	1
Saturated Soil	Total PCB Aroclors (ND = 0)	6	7	1	14%	mg/kg	2.60E-03	2.60E-03	2.60E-03	SB-31	19 - 20 ft	Alluvial	03/01/21	--	3.60E-02	0	0	--	--	0.1
	Total PCB Congeners (ND = 0)	1	1	1	100%	mg/kg	8.03E-06	8.03E-06	8.03E-06	MW-22	17.5 - 18.5 ft	Alluvial	09/14/22	--	1.80E-04	0	0	--	--	--
	Total PCB TEQ (ND = 0)	1	1	0	0%	--	--	--	--	--	--	--	--	--	7.00E-07	0	0	--	--	--
Groundwater	Total PCB Aroclors (ND = 0)	4	5	0	0%	--	--	--	--	--	--	--	--	--	3.50E-03	0	0	--	--	--
	Total PCB Congeners (ND = 0)	1	1	1	100%	ug/L	3.74E-05	3.74E-05	3.74E-05	MW-13	-	--	05/27/21	Fill	4.20E-04	0	0	--	--	0.1
	Total PCB TEQ (ND = 0)	1	1	0	0%	--	--	--	--	--	--	--	--	--	1.50E-07	0	0	--	--	--

Notes:

bgs - below ground surface
mg/kg - milligrams per kilogram
PCB - polychorinated biphenyl
TEQ - toxic equivalency
ND = 0 - calculated using zero for non-detect values
-- - not detected or no detections exceed Proposed RI CUL
Blank - Not applicable for the media
Vadose soil is soil between 0 and 6 ft bgs.
Saturated soil is soil at depths equal to or greater than 6 ft bgs.

ft - feet
ug/L - micrograms per liter

Proposed RI CUL - Proposed Remedial Investigation Cleanup Level; refer to Section 6.2.
Max. Exceedanace Factor - Maximum detected concentration divided by the Proposed RI CUL

Table J.3. Summary Statistics for COPCs by Area and Media - Dioxins/Furans

South Park Marina Site, Seattle, Washington

Matrix	Analyte	Number of Locations	Number of Samples	Number of Samples with Detected Conc.	Frequency of Detection	Units	Min. Detected Conc.	Median Detected Conc.	Max. Detected Conc.	Location of Max. Detection	Depth bgs of Max. Detection (soil)	Geologic Unit of Max. Detection (soil)	Date of Max. Detection	Hydrostratigraphic Unit of Max. Detection (groundwater)	Proposed RI CUL	Number of Detected Exceedances by Sample	Number of Detected Exceedances by Location	Frequency of Exceedance by Sample	Frequency of Exceedance by Location	Max. Exceedance Factor
South Area (including Pond Area)																				
Soil Vadose	Total Dioxin/Furan TEQ (ND = 1/2 RDL)	9	9	9	100%	mg/kg	1.94E-05	1.75E-03	6.37E-03	MW-16	1.5 - 2 ft	Fill	9/23/2022	--	5.70E-06	9	9	100%	100%	1,118
	2,3,7,8-TCDD	9	9	8	89%	mg/kg	3.00E-07	2.02E-05	4.38E-05	MW-16	1.5 - 2 ft	Fill	9/23/2022	--	5.20E-06	5	5	56%	56%	8.4
Soil Saturated	Total Dioxin/Furan TEQ (ND = 1/2 RDL)	2	2	2	100%	mg/kg	1.00E-03	2.50E-03	4.01E-03	SB-42	6 - 8 ft	Fill	9/22/2022	--	5.70E-06	2	2	100%	100%	704
	2,3,7,8-TCDD	2	2	2	100%	mg/kg	4.45E-05	9.72E-05	1.50E-04	SB-42	6 - 8 ft	Fill	9/22/2022	--	5.20E-06	2	2	100%	100%	29
Groundwater	Total Dioxin/Furan TEQ (ND = 1/2 RDL)	3	3	3	100%	ug/L	1.20E-06	2.00E-06	2.88E-05	MW-05	-	--	3/23/2023	Fill	5.70E-05	0	0	--	--	0.5
	2,3,7,8-TCDD	3	3	1	33%	ug/L	1.10E-06	1.10E-06	1.10E-06	MW-05	-	--	3/23/2023	Fill	5.00E-06	0	0	--	--	0.2
Pond Area (within the South Area)																				
Soil Vadose	Total Dioxin/Furan TEQ (ND = 1/2 RDL)	5	5	5	100%	mg/kg	1.94E-05	2.55E-03	6.37E-03	MW-16	1.5 - 2 ft	Fill	9/23/2022	--	5.70E-06	5	5	100%	100%	1,118
	2,3,7,8-TCDD	5	5	4	80%	mg/kg	3.00E-07	1.61E-05	4.38E-05	MW-16	1.5 - 2 ft	Fill	9/23/2022	--	5.20E-06	2	2	40%	40%	8.4
Soil Saturated	Total Dioxin/Furan TEQ (ND = 1/2 RDL)	2	2	2	100%	mg/kg	1.00E-03	2.50E-03	4.01E-03	SB-42	6 - 8 ft	Fill	9/22/2022	--	5.70E-06	2	2	100%	100%	704
	2,3,7,8-TCDD	2	2	2	100%	mg/kg	4.45E-05	9.72E-05	1.50E-04	SB-42	6 - 8 ft	Fill	9/22/2022	--	5.20E-06	2	2	100%	100%	29
Groundwater	Total Dioxin/Furan TEQ (ND = 1/2 RDL)	3	3	3	100%	ug/L	1.20E-06	2.00E-06	2.88E-05	MW-05	-	--	3/23/2023	Fill	5.70E-05	0	0	--	--	0.5
	2,3,7,8-TCDD	3	3	1	33%	ug/L	1.10E-06	1.10E-06	1.10E-06	MW-05	-	--	3/23/2023	Fill	5.00E-06	0	0	--	--	0.2
Central Area																				
Soil Vadose	Total Dioxin/Furan TEQ (ND = 1/2 RDL)	8	9	9	100%	mg/kg	1.20E-06	5.20E-06	3.64E-05	SB-40	0 - 1 ft	Fill	9/26/2022	--	5.70E-06	4	3	44%	38%	6.4
	2,3,7,8-TCDD	8	9	4	44%	mg/kg	0.00E+00	5.00E-07	9.00E-07	SB-40	0 - 1 ft	Fill	9/26/2022	--	5.20E-06	0	0	--	--	0.2
Groundwater	Total Dioxin/Furan TEQ (ND = 1/2 RDL)	4	4	2	50%	ug/L	1.00E-06	1.30E-06	1.60E-06	MW-11	-	--	3/23/2023	Fill	5.70E-05	0	0	--	--	--
	2,3,7,8-TCDD	4	4	0	0%	--	--	--	--	--	--	--	--	--	5.00E-06	0	0	--	--	--
Northwest Area																				
Soil Vadose	Total Dioxin/Furan TEQ (ND = 1/2 RDL)	3	3	3	100%	mg/kg	5.00E-07	2.90E-06	1.30E-05	MW-13D	0 - 1 ft	Fill	9/23/2022	--	5.70E-06	1	1	33%	33%	2.3
	2,3,7,8-TCDD	3	3	0	0%	--	--	--	--	--	--	--	--	--	5.20E-06	0	0	--	--	--

Notes:

bgs - below ground surface
mg/kg - milligrams per kilogram
TEQ - toxic equivalency
ND = 1/2 RDL - calculated using one-half the reported detection limit (RDL) for non-detect values
-- - not detected or no detections exceed Proposed RI CUL
Blank - Not applicable for the media
Vadose soil is soil between 0 and 6 ft bgs.
Saturated soil is soil at depths equal to or greater than 6 ft bgs.

ft - feet
ug/L - micrograms per liter

Proposed RI CUL - Proposed Remedial Investigation Cleanup Level; refer to Section 6.2.
Max. Exceedanace Factor - Maximum detected concentration divided by the Proposed RI CUL

Table J.4. Summary Statistics for COPCs by Area and Media - TPH

South Park Marina Site, Seattle, Washington

Matrix	Analyte	Number of Locations	Number of Samples	Number of Samples with Detected Conc.	Frequency of Detection	Units	Min. Detected Conc.	Median Detected Conc.	Max. Detected Conc.	Location of Max. Detection	Depth bgs of Max. Detection	Date of Max. Detection	Geologic Unit of Max. Detection (soil)	Hydrostratigraphic Unit of Max. Detection (groundwater)	Proposed RI CUL	Number of Detected Exceedances by Sample	Number of Detected Exceedances by Location	Frequency of Exceedance by Sample	Frequency of Exceedance by Location	Max. Exceedance Factor
Pond Area (within the South Area)																				
Soil Vadose	Gasoline Range Organics	15	19	9	47%	mg/kg	2.2	12.6	570	SB-42	3.5 - 4.5 ft	9/22/2022	Fill	--	30	2	2	11%	13%	19
	Diesel Range Organics	19	24	20	83%	mg/kg	42	1,250	12,000	SB-16	3.5 - 4 ft	10/1/2007	Fill	--	2,000	6	6	25%	32%	6
	Motor Oil Range Organics	19	24	21	88%	mg/kg	100	3,700	34,000	SB-18	5 - 5 ft	7/27/2011	Fill	--	2,000	14	13	58%	68%	17
	Diesel and Oil Extended Range Organics	19	24	21	88%	mg/kg	122	5,000	40,300	SB-18	5 - 5 ft	7/27/2011	Fill	--	2,000	14	13	58%	68%	20
Soil Saturated	Gasoline Range Organics	16	30	6	20%	mg/kg	17	214	650	MW-04	7 - 8 ft	3/4/2021	Fill	--	30	5	5	17%	31%	22
	Diesel Range Organics	19	35	18	51%	mg/kg	34	957	9,550	MW-05	6 - 7 ft	3/5/2021	Fill	--	2,000	5	4	14%	21%	4.8
	Motor Oil Range Organics	19	35	23	66%	mg/kg	82	1,600	49,000	MW-04D	14 - 15 ft	9/22/2022	Tidal Flat	--	2,000	11	8	31%	42%	24
	Diesel and Oil Extended Range Organics	19	35	23	66%	mg/kg	82	2,260	57,700	MW-04D	14 - 15 ft	9/22/2022	Tidal Flat	--	2,000	13	9	37%	47%	29
Groundwater	Gasoline-Range Organics	9	13	1	8%	ug/L	282	282	282	MW-05	-	3/31/2021	--	Fill	800	0	0	--	--	0.3
	Diesel-Range Organics	9	13	9	69%	ug/L	95	620	4,430	MW-05	-	3/31/2021	--	Fill	500	5	3	38%	33%	8.9
	Motor Oil-Range Organics	9	13	5	38%	ug/L	630	923	1,400	MW-04	-	10/27/2022	--	Fill	500	5	3	38%	33%	2.8
	Diesel and Oil Extended-Range Organics	9	13	9	69%	ug/L	95	1,370	5,350	MW-05	-	3/31/2021	--	Fill	500	5	3	38%	33%	11
South Area (including Pond Area)																				
Soil Vadose	Gasoline Range Organics	26	38	16	42%	mg/kg	2.1	8.25	570	SB-42	3.5 - 4.5 ft	9/22/2022	Fill	--	30	2	2	5%	8%	19
	Diesel Range Organics	30	43	33	77%	mg/kg	18	440	12,000	SB-16	3.5 - 4 ft	10/1/2007	Fill	--	2,000	6	6	14%	20%	6
	Motor Oil Range Organics	30	43	35	81%	mg/kg	76	1,640	34,000	SB-18	5 - 5 ft	7/27/2011	Fill	--	2,000	15	14	35%	47%	17
	Diesel and Oil Extended Range Organics	30	43	35	81%	mg/kg	76	1,950	40,300	SB-18	5 - 5 ft	7/27/2011	Fill	--	2,000	17	16	40%	53%	20
Soil Saturated	Gasoline Range Organics	28	43	8	19%	mg/kg	2.1	78	650	MW-04	7 - 8 ft	3/4/2021	Fill	--	30	5	5	12%	18%	22
	Diesel Range Organics	32	49	21	43%	mg/kg	3.7	660	9,550	MW-05	6 - 7 ft	3/5/2021	Fill	--	2,000	5	4	10%	13%	4.8
	Motor Oil Range Organics	32	49	26	53%	mg/kg	21	1,350	49,000	MW-04D	14 - 15 ft	9/22/2022	Tidal Flat	--	2,000	11	8	22%	25%	24
	Diesel and Oil Extended Range Organics	32	49	26	53%	mg/kg	24.7	1,730	57,700	MW-04D	14 - 15 ft	9/22/2022	Tidal Flat	--	2,000	13	9	27%	28%	29
Groundwater	Gasoline-Range Organics	11	15	1	7%	ug/L	282	282	282	MW-05	-	3/31/2021	--	Fill	800	0	0	--	--	0.3
	Diesel-Range Organics	11	15	9	60%	ug/L	95	620	4,430	MW-05	-	3/31/2021	--	Fill	500	5	3	33%	27%	8.9
	Motor Oil-Range Organics	11	15	5	33%	ug/L	630	923	1,400	MW-04	-	10/27/2022	--	Fill	500	5	3	33%	27%	2.8
	Diesel and Oil Extended-Range Organics	11	15	9	60%	ug/L	95	1,370	5,350	MW-05	-	3/31/2021	--	Fill	500	5	3	33%	27%	11
Central Area																				
Soil Vadose	Gasoline Range Organics	19	28	9	32%	mg/kg	2.3	18.9	77.7	SB-27	0 - 1 ft	3/9/2021	Fill	--	30	4	4	14%	21%	2.6
	Diesel Range Organics	20	31	7	23%	mg/kg	9.9	42	266	SB-27	0 - 1 ft	3/9/2021	Fill	--	2,000	0	0	--	--	0.1
	Motor Oil Range Organics	20	31	17	55%	mg/kg	81	187	994	SB-27	0 - 1 ft	3/9/2021	Fill	--	2,000	0	0	--	--	0.5
	Diesel and Oil Extended Range Organics	20	31	17	55%	mg/kg	81	233	1,260	SB-27	0 - 1 ft	3/9/2021	Fill	--	2,000	0	0	--	--	0.6
Soil Saturated	Gasoline Range Organics	17	21	6	29%	mg/kg	2	2.3	7.64	SB-27	8 - 9 ft	3/9/2021	Alluvial	--	30	0	0	--	--	0.2
	Diesel Range Organics	19	23	0	0%	--	--	--	--	--	--	--	--	--	2,000	0	0	--	--	--
	Motor Oil Range Organics	19	23	1	4%	mg/kg	284	284	284	SB-27	8 - 9 ft	3/9/2021	Alluvial	--	2,000	0	0	--	--	0.1
	Diesel and Oil Extended Range Organics	19	23	1	4%	mg/kg	284	284	284	SB-27	8 - 9 ft	3/9/2021	Alluvial	--	2,000	0	0	--	--	0.1
Groundwater	Gasoline-Range Organics	15	23	2	9%	ug/L	101	196	290	MW-09D	-	10/24/2022	--	Alluvial	800	0	0	--	--	0.4
	Diesel-Range Organics	15	21	3	14%	ug/L	55	60	73	MW-12	-	10/27/2022	--	Fill	500	0	0	--	--	0.1
	Motor Oil-Range Organics	15	21	0	0%	--	--	--	--	--	--	--	--	--	500	0	0	--	--	--
	Diesel and Oil Extended-Range Organics	15	21	3	14%	ug/L	55	60	73	MW-12	-	10/27/2022	--	Fill	500	0	0	--	--	0.1
Northwest Area																				
Soil Vadose	Gasoline Range Organics	5	7	1	14%	mg/kg	3	3	3	MW-21	5 - 6 ft	9/14/2022	Fill	--	30	0	0	--	--	0.1
	Diesel Range Organics	6	9	0	0%	--	--	--	--	--	--	--	--	--	2,000	0	0	--	--	--
	Motor Oil Range Organics	6	9	1	11%	mg/kg	212	212	212	SB-30	0 - 1 ft	3/1/2021	Fill	--	2,000	0	0	--	--	0.1
	Diesel and Oil Extended Range Organics	6	9	1	11%	mg/kg	212	212	212	SB-30	0 - 1 ft	3/1/2021	Fill	--	2,000	0	0	--	--	0.1
Soil Saturated	Gasoline Range Organics	5	9	6	67%	mg/kg	2.1	41.2	5,440	SB-31	13 - 14.5 ft	3/1/2021	Tidal Flat	--	30	3	2	33%	40%	181
	Diesel Range Organics	7	12	0	0%	--	--	--	--	--	--	--	--	--	2,000	0	0	--	--	--
	Motor Oil Range Organics	7	12	0	0%	--	--	--	--	--	--	--	--	--	2,000	0	0	--	--	--
	Diesel and Oil Extended Range Organics	7	12	0	0%	--	--	--	--	--	--	--	--	--	2,000	0	0	--	--	--
Groundwater	Gasoline-Range Organics	2	3	2	67%	ug/L	120	295	470	MW-13D	-	10/26/2022	--	Alluvial	800	0	0	--	--	0.6
	Diesel-Range Organics	4	8	1	13%	ug/L	380	380	380	MW-13D	-	10/26/2022	--	Alluvial	500	0	0	--	--	0.8
	Motor Oil-Range Organics	4	8	1	13%	ug/L	380	380	380	MW-13D	-	10/26/2022	--	Alluvial	500	0	0	--	--	0.8
	Diesel and Oil Extended-Range Organics	4	8	1	13%	ug/L	760	760	760	MW-13D	-	10/26/2022	--	Alluvial	500	1	1	13%	25%	1.5

Notes:

bgs - below ground surface
ft - feet
Proposed RI CUL - Proposed Remedial Investigation Cleanup Level; refer to Section 6.2.
mg/kg - milligrams per kilogram
ug/L - micrograms per liter
Max. Exceedanace Factor - Maximum detected concentration divided by the Proposed RI CUL
-- - not detected or no detections exceed Proposed RI CUL
Blank - Not applicable for the media
Vadose soil is soil between 0 and 6 ft bgs.
Saturated soil is soil at depths equal to or greater than 6 ft bgs.

Table J.5. Summary Statistics for COPCs by Area and Media - PAHs

South Park Marina Site, Seattle, Washington

Matrix	Analyte	Number of Locations	Number of Samples	Number of Samples with Detected Conc.	Frequency of Detection	Units	Min. Detected Conc.	Median Detected Conc.	Max. Detected Conc.	Location of Max. Detection	Depth bgs of Max. Detection	Date of Max. Detection	Geologic Unit of Max. Detection (soil)	Hydrostratigraphic Unit of Max. Detection (groundwater)	Proposed RI CUL	Number of Detected Exceedances by Sample	Number of Detected Exceedances by Location	Frequency of Exceedance by Sample	Frequency of Exceedance by Location	Max. Exceedance Factor
Pond Area (within the South Area)																				
Soil Vadose	1-Methylnaphthalene	11	15	6	40%	mg/kg	0.00643	0.0538	0.88	SB-42	3.5 - 4.5 ft	9/22/2022	Fill	--	20	0	0	--	--	--
	2-Methylnaphthalene	17	22	9	41%	mg/kg	0.0111	0.56	3.0	SB-16	3.5 - 4 ft	10/1/2007	Fill	--	0.67	4	4	18%	24%	4.5
	Benzo(g,h,i)perylene	17	22	14	64%	mg/kg	0.00241	0.052	0.516	SB-26	0 - 1 ft	3/4/2021	Fill	--	0.67	0	0	--	--	0.8
	Fluoranthene	17	22	16	73%	mg/kg	0.00173	0.0645	1.6	SB-43	2.5 - 3.5 ft	9/26/2022	Fill	--	1.7	0	0	--	--	0.9
	Pyrene	17	22	17	77%	mg/kg	0.00191	0.12	1.5	SB-43	2.5 - 3.5 ft	9/26/2022	Fill	--	2.6	0	0	--	--	0.6
	Benz(a)anthracene	17	22	12	55%	mg/kg	0.00098	0.043	0.75	SB-43	2.5 - 3.5 ft	9/26/2022	Fill	--	0.73	1	1	5%	6%	1
	Benzo(a)pyrene	17	22	12	55%	mg/kg	0.00167	0.0281	0.86	SB-43	2.5 - 3.5 ft	9/26/2022	Fill	--	0.0005	12	9	55%	53%	1,720
	Benzo(b)fluoranthene	17	22	13	59%	mg/kg	0.00178	0.055	1.1	SB-43	2.5 - 3.5 ft	9/26/2022	Fill	--	44	0	0	--	--	--
	Chrysene	17	22	14	64%	mg/kg	0.00167	0.099	0.71	SB-43	2.5 - 3.5 ft	9/26/2022	Fill	--	1.4	0	0	--	--	0.5
	Dibenzo(a,h)anthracene	17	22	6	27%	mg/kg	0.00392	0.0184	0.081	SB-43	2.5 - 3.5 ft	9/26/2022	Fill	--	0.23	0	0	--	--	0.3
	Indeno(1,2,3-cd)pyrene	17	22	13	59%	mg/kg	0.00245	0.046	0.55	SB-43	2.5 - 3.5 ft	9/26/2022	Fill	--	0.6	0	0	--	--	0.9
	Total Benzofluoranthenes	17	22	13	59%	mg/kg	0.00386	0.08	1.43	SB-43	2.5 - 3.5 ft	9/26/2022	Fill	--	1.1	1	1	5%	6%	1.3
	Total HPAHs (ND = 1/2 RDL)	17	22	17	77%	mg/kg	0.019	0.758	7.92	SB-43	2.5 - 3.5 ft	9/26/2022	Fill	--	1.1	5	5	23%	29%	7.2
	Total cPAHs TEQ (ND = 1/2 RDL)	17	22	16	73%	mg/kg	0.00254	0.0546	1.15	SB-43	2.5 - 3.5 ft	9/26/2022	Fill	--	0.00076	16	12	73%	71%	1,513
Soil Saturated	1-Methylnaphthalene	13	35	20	57%	mg/kg	0.00063	0.00687	1.05	MW-05	6 - 7 ft	3/5/2021	Fill	--	20	0	0	--	--	--
	2-Methylnaphthalene	16	39	20	51%	mg/kg	0.00084	0.00672	4.5	SB-14	7.5 - 8 ft	10/1/2007	Fill	--	0.67	2	2	5%	13%	6.7
	Benzo(g,h,i)perylene	16	39	19	49%	mg/kg	0.00059	0.0056	0.0811	MW-05	6 - 7 ft	3/5/2021	Fill	--	0.67	0	0	--	--	0.1
	Fluoranthene	16	39	26	67%	mg/kg	0.00056	0.0145	0.88	SB-14	7.5 - 8 ft	10/1/2007	Fill	--	1.7	0	0	--	--	0.5
	Pyrene	16	39	28	72%	mg/kg	0.00057	0.0263	0.99	SB-14	7.5 - 8 ft	10/1/2007	Fill	--	2.6	0	0	--	--	0.4
	Benz(a)anthracene	16	39	16	41%	mg/kg	0.00066	0.0163	0.184	MW-05	6 - 7 ft	3/5/2021	Fill	--	0.73	0	0	--	--	0.2
	Benzo(a)pyrene	16	39	19	49%	mg/kg	0.00052	0.016	0.17	SB-22	10 - 10 ft	7/27/2011	--	--	0.0005	19	12	49%	75%	340
	Benzo(b)fluoranthene	16	39	17	44%	mg/kg	0.00073	0.014	0.118	MW-05	6 - 7 ft	3/5/2021	Fill	--	44	0	0	--	--	--
	Chrysene	16	39	23	59%	mg/kg	0.00058	0.021	0.53	SB-14	7.5 - 8 ft	10/1/2007	Fill	--	1.4	0	0	--	--	0.4
	Dibenzo(a,h)anthracene	16	39	9	23%	mg/kg	0.00119	0.00336	0.0226	MW-05	6 - 7 ft	3/5/2021	Fill	--	0.23	0	0	--	--	0.1
	Indeno(1,2,3-cd)pyrene	16	39	15	38%	mg/kg	0.0012	0.01	0.0918	MW-05	6 - 7 ft	3/5/2021	Fill	--	0.6	0	0	--	--	0.1
	Total Benzofluoranthenes	16	39	17	44%	mg/kg	0.00098	0.0194	0.257	MW-05	6 - 7 ft	3/5/2021	Fill	--	1.1	0	0	--	--	0.2
	Total HPAHs (ND = 1/2 RDL)	16	39	29	74%	mg/kg	0.00325	0.132	5.9	SB-14	7.5 - 8 ft	10/1/2007	Fill	--	1.1	4	4	10%	25%	5.4
	Total cPAHs TEQ (ND = 1/2 RDL)	16	39	24	62%	mg/kg	0.000381	0.0178	0.755	SB-14	7.5 - 8 ft	10/1/2007	Fill	--	0.00076	21	13	54%	81%	993
Groundwater	1-Methylnaphthalene	8	12	4	33%	ug/L	0.002	1.31	2.63	MW-05	-	3/31/2021	--	Fill	0.17	2	1	17%	13%	15
	2-Methylnaphthalene	9	13	2	15%	ug/L	0.003	0.222	0.441	MW-05	-	3/31/2021	--	Fill	14	0	0	--	--	--
	Benzo(g,h,i)perylene	9	13	2	15%	ug/L	0.002	0.002	0.002	MW-04	-	3/31/2021	--	Fill	--	0	0	--	--	--
	Fluoranthene	9	13	4	31%	ug/L	0.021	0.0785	0.18	MW-05	-	10/26/2022	--	Fill	1.8	0	0	--	--	0.1
	Pyrene	9	13	4	31%	ug/L	0.021	0.0855	0.3	MW-05	-	10/26/2022	--	Fill	2	0	0	--	--	0.1
	Benz(a)anthracene	9	13	3	23%	ug/L	0.007	0.024	0.052	MW-05	-	10/26/2022	--	Fill	0.01	2	2	15%	22%	5.2
	Benzo(a)pyrene	9	13	3	23%	ug/L	0.003	0.017	0.046	MW-05	-	10/26/2022	--	Fill	0.01	2	2	15%	22%	4.6
	Benzo(b)fluoranthene	9	13	3	23%	ug/L	0.003	0.018	0.056	MW-05	-	10/26/2022	--	Fill	0.01	2	2	15%	22%	5.6
	Chrysene	9	13	4	31%	ug/L	0.002	0.021	0.092	MW-05	-	10/26/2022	--	Fill	0.016	2	2	15%	22%	5.8
	Dibenzo(a,h)anthracene	9	13	0	0%	--	--	--	--	--	--	--	--	--	0.01	0	0	--	--	--
	Indeno(1,2,3-cd)pyrene	9	13	2	15%	ug/L	0.001	0.008	0.015	MW-05	-	10/26/2022	--	Fill	0.01	1	1	8%	11%	1.5
	Total Benzofluoranthenes	9	13	3	23%	ug/L	0.006	0.023	0.074	MW-05	-	10/26/2022	--	Fill	--	0	0	--	--	--
	Total HPAHs (ND = 1/2 RDL)	9	13	4	31%	ug/L	0.081	0.242	0.774	MW-05	-	10/26/2022	--	Fill	--	0	0	--	--	--
	Total cPAHs TEQ (ND = 1/2 RDL)	9	13	4	31%	ug/L	0.00521	0.0153	0.0615	MW-05	-	10/26/2022	--	Fill	0.015	2	2	15%	22%	4.1

Table J.5. Summary Statistics for COPCs by Area and Media - PAHs

South Park Marina Site, Seattle, Washington

Matrix	Analyte	Number of Locations	Number of Samples	Number of Samples with Detected Conc.	Frequency of Detection	Units	Min. Detected Conc.	Median Detected Conc.	Max. Detected Conc.	Location of Max. Detection	Depth bgs of Max. Detection	Date of Max. Detection	Geologic Unit of Max. Detection (soil)	Hydrostratigraphic Unit of Max. Detection (groundwater)	Proposed RI CUL	Number of Detected Exceedances by Sample	Number of Detected Exceedances by Location	Frequency of Exceedance by Sample	Frequency of Exceedance by Location	Max. Exceedance Factor
South Area (including Pond Area)																				
Soil Vadose	1-Methylnaphthalene	21	34	13	38%	mg/kg	0.00237	0.0225	0.88	SB-42	3.5 - 4.5 ft	9/22/2022	Fill	--	20	0	0	--	--	--
	2-Methylnaphthalene	28	42	17	40%	mg/kg	0.00543	0.0555	3.0	SB-16	3.5 - 4 ft	10/1/2007	Fill	--	0.67	4	4	10%	14%	4.5
	Benzo(g,h,i)perylene	28	42	28	67%	mg/kg	0.0012	0.0555	0.516	SB-26	0 - 1 ft	3/4/2021	Fill	--	0.67	0	0	--	--	0.8
	Fluoranthene	28	42	28	67%	mg/kg	0.00173	0.058	1.6	SB-43	2.5 - 3.5 ft	9/26/2022	Fill	--	1.7	0	0	--	--	0.9
	Pyrene	28	42	30	71%	mg/kg	0.00061	0.0695	1.5	SB-43	2.5 - 3.5 ft	9/26/2022	Fill	--	2.6	0	0	--	--	0.6
	Benz(a)anthracene	28	42	24	57%	mg/kg	0.00098	0.03	0.75	SB-43	2.5 - 3.5 ft	9/26/2022	Fill	--	0.73	1	1	2%	4%	1
	Benzo(a)pyrene	28	42	26	62%	mg/kg	0.00167	0.0436	0.86	SB-43	2.5 - 3.5 ft	9/26/2022	Fill	--	0.0005	26	19	62%	68%	1,720
	Benzo(b)fluoranthene	28	42	27	64%	mg/kg	0.00178	0.076	1.1	SB-43	2.5 - 3.5 ft	9/26/2022	Fill	--	44	0	0	--	--	--
	Chrysene	28	42	28	67%	mg/kg	0.00167	0.0685	0.71	SB-43	2.5 - 3.5 ft	9/26/2022	Fill	--	1.4	0	0	--	--	0.5
	Dibenzo(a,h)anthracene	28	42	13	31%	mg/kg	0.00226	0.0136	0.081	SB-43	2.5 - 3.5 ft	9/26/2022	Fill	--	0.23	0	0	--	--	0.3
	Indeno(1,2,3-cd)pyrene	28	42	27	64%	mg/kg	0.0013	0.048	0.55	SB-43	2.5 - 3.5 ft	9/26/2022	Fill	--	0.6	0	0	--	--	0.9
	Total Benzofluoranthenes	28	42	27	64%	mg/kg	0.0038	0.116	1.43	SB-43	2.5 - 3.5 ft	9/26/2022	Fill	--	1.1	1	1	2%	4%	1.3
	Total HPAHs (ND = 1/2 RDL)	28	42	33	79%	mg/kg	0.00286	0.573	7.92	SB-43	2.5 - 3.5 ft	9/26/2022	Fill	--	1.1	7	7	17%	25%	7.2
	Total cPAHs TEQ (ND = 1/2 RDL)	28	42	31	74%	mg/kg	0.00254	0.0653	1.15	SB-43	2.5 - 3.5 ft	9/26/2022	Fill	--	0.00076	31	22	74%	79%	1,513
Soil Saturated	1-Methylnaphthalene	20	51	22	43%	mg/kg	0.00062	0.0053	1.05	MW-05	6 - 7 ft	3/5/2021	Fill	--	20	0	0	--	--	--
	2-Methylnaphthalene	28	60	22	37%	mg/kg	0.00059	0.00619	4.5	SB-14	7.5 - 8 ft	10/1/2007	Fill	--	0.67	2	2	3%	7%	6.7
	Benzo(g,h,i)perylene	28	60	25	42%	mg/kg	0.00052	0.0056	0.0811	MW-05	6 - 7 ft	3/5/2021	Fill	--	0.67	0	0	--	--	0.1
	Fluoranthene	28	60	35	58%	mg/kg	0.00056	0.00597	0.88	SB-14	7.5 - 8 ft	10/1/2007	Fill	--	1.7	0	0	--	--	0.5
	Pyrene	28	60	37	62%	mg/kg	0.00057	0.008	0.99	SB-14	7.5 - 8 ft	10/1/2007	Fill	--	2.6	0	0	--	--	0.4
	Benz(a)anthracene	28	60	22	37%	mg/kg	0.00064	0.0135	0.184	MW-05	6 - 7 ft	3/5/2021	Fill	--	0.73	0	0	--	--	0.2
	Benzo(a)pyrene	28	60	26	43%	mg/kg	0.00052	0.0105	0.17	SB-22	10 - 10 ft	7/27/2011	--	--	0.0005	26	18	43%	64%	340
	Benzo(b)fluoranthene	28	60	24	40%	mg/kg	0.00073	0.00935	0.118	MW-05	6 - 7 ft	3/5/2021	Fill	--	44	0	0	--	--	--
	Chrysene	28	60	31	52%	mg/kg	0.00053	0.0166	0.53	SB-14	7.5 - 8 ft	10/1/2007	Fill	--	1.4	0	0	--	--	0.4
	Dibenzo(a,h)anthracene	28	60	10	17%	mg/kg	0.00119	0.00278	0.0226	MW-05	6 - 7 ft	3/5/2021	Fill	--	0.23	0	0	--	--	0.1
	Indeno(1,2,3-cd)pyrene	28	60	21	35%	mg/kg	0.00053	0.0066	0.0918	MW-05	6 - 7 ft	3/5/2021	Fill	--	0.6	0	0	--	--	0.1
	Total Benzofluoranthenes	28	60	24	40%	mg/kg	0.00098	0.0144	0.257	MW-05	6 - 7 ft	3/5/2021	Fill	--	1.1	0	0	--	--	0.2
	Total HPAHs (ND = 1/2 RDL)	28	60	38	63%	mg/kg	0.00325	0.0568	5.9	SB-14	7.5 - 8 ft	10/1/2007	Fill	--	1.1	4	4	7%	14%	5.4
	Total cPAHs TEQ (ND = 1/2 RDL)	28	60	32	53%	mg/kg	0.00038	0.0106	0.755	SB-14	7.5 - 8 ft	10/1/2007	Fill	--	0.00076	28	19	47%	68%	993
Groundwater	1-Methylnaphthalene	9	13	4	31%	ug/L	0.002	1.31	2.63	MW-05	-	3/31/2021	--	Fill	0.17	2	1	15%	11%	15
	2-Methylnaphthalene	11	15	2	13%	ug/L	0.003	0.222	0.441	MW-05	-	3/31/2021	--	Fill	14	0	0	--	--	--
	Benzo(g,h,i)perylene	11	15	2	13%	ug/L	0.002	0.002	0.002	MW-04	-	3/31/2021	--	Fill	--	0	0	--	--	--
	Fluoranthene	11	15	4	27%	ug/L	0.021	0.0785	0.18	MW-05	-	10/26/2022	--	Fill	1.8	0	0	--	--	0.1
	Pyrene	11	15	4	27%	ug/L	0.021	0.0855	0.3	MW-05	-	10/26/2022	--	Fill	2	0	0	--	--	0.1
	Benz(a)anthracene	11	15	3	20%	ug/L	0.007	0.024	0.052	MW-05	-	10/26/2022	--	Fill	0.01	2	2	13%	18%	5.2
	Benzo(a)pyrene	11	15	3	20%	ug/L	0.003	0.017	0.046	MW-05	-	10/26/2022	--	Fill	0.01	2	2	13%	18%	4.6
	Benzo(b)fluoranthene	11	15	3	20%	ug/L	0.003	0.018	0.056	MW-05	-	10/26/2022	--	Fill	0.01	2	2	13%	18%	5.6
	Chrysene	11	15	4	27%	ug/L	0.002	0.021	0.092	MW-05	-	10/26/2022	--	Fill	0.016	2	2	13%	18%	5.8
	Dibenzo(a,h)anthracene	11	15	0	0%	--	--	--	--	--	--	--	--	--	0.01	0	0	--	--	--
	Indeno(1,2,3-cd)pyrene	11	15	2	13%	ug/L	0.001	0.008	0.015	MW-05	-	10/26/2022	--	Fill	0.01	1	1	7%	9%	1.5
	Total Benzofluoranthenes	11	15	3	20%	ug/L	0.006	0.023	0.074	MW-05	-	10/26/2022	--	Fill	--	0	0	--	--	--
	Total HPAHs (ND = 1/2 RDL)	11	15	4	27%	ug/L	0.081	0.242	0.774	MW-05	-	10/26/2022	--	Fill	--	0	0	--	--	--
	Total cPAHs TEQ (ND = 1/2 RDL)	11	15	4	27%	ug/L	0.00521	0.0153	0.0615	MW-05	-	10/26/2022	--	Fill	0.015	2	2	13%	18%	4.1

Table J.5. Summary Statistics for COPCs by Area and Media - PAHs

South Park Marina Site, Seattle, Washington

Matrix	Analyte	Number of Locations	Number of Samples	Number of Samples with Detected Conc.	Frequency of Detection	Units	Min. Detected Conc.	Median Detected Conc.	Max. Detected Conc.	Location of Max. Detection	Depth bgs of Max. Detection	Date of Max. Detection	Geologic Unit of Max. Detection (soil)	Hydrostratigraphic Unit of Max. Detection (groundwater)	Proposed RI CUL	Number of Detected Exceedances by Sample	Number of Detected Exceedances by Location	Frequency of Exceedance by Sample	Frequency of Exceedance by Location	Max. Exceedance Factor
Central Area																				
Soil Vadose	1-Methylnaphthalene	20	33	6	18%	mg/kg	0.00459	0.00626	0.0189	SB-34	0 - 1 ft	3/1/2021	Fill	--	20	0	0	--	--	--
	2-Methylnaphthalene	20	33	5	15%	mg/kg	0.00052	0.0114	0.0207	SB-34	0 - 1 ft	3/1/2021	Fill	--	0.67	0	0	--	--	--
	Benzo(g,h,i)perylene	20	33	24	73%	mg/kg	0.0006	0.0289	8.5	MW-17	0 - 1 ft	9/14/2022	Fill	--	0.67	1	1	3%	5%	13
	Fluoranthene	20	33	28	85%	mg/kg	0.0007	0.0199	4.3	MW-17	0 - 1 ft	9/14/2022	Fill	--	1.7	1	1	3%	5%	2.5
	Pyrene	20	33	28	85%	mg/kg	0.00097	0.0223	5.5	MW-17	0 - 1 ft	9/14/2022	Fill	--	2.6	1	1	3%	5%	2.1
	Benz(a)anthracene	20	33	25	76%	mg/kg	0.00064	0.0127	8.7	MW-17	0 - 1 ft	9/14/2022	Fill	--	0.73	1	1	3%	5%	12
	Benzo(a)pyrene	20	33	27	82%	mg/kg	0.00086	0.0243	22	MW-17	0 - 1 ft	9/14/2022	Fill	--	0.0005	27	19	82%	95%	44,000
	Benzo(b)fluoranthene	20	33	24	73%	mg/kg	0.00144	0.0328	28	MW-17	0 - 1 ft	9/14/2022	Fill	--	44	0	0	--	--	0.6
	Chrysene	20	33	27	82%	mg/kg	0.0011	0.032	11	MW-17	0 - 1 ft	9/14/2022	Fill	--	1.4	1	1	3%	5%	7.9
	Dibenzo(a,h)anthracene	20	33	19	58%	mg/kg	0.00149	0.00566	2.2	MW-17	0 - 1 ft	9/14/2022	Fill	--	0.23	1	1	3%	5%	9.6
	Indeno(1,2,3-cd)pyrene	20	33	23	70%	mg/kg	0.0006	0.0211	11	MW-17	0 - 1 ft	9/14/2022	Fill	--	0.6	1	1	3%	5%	18
	Total Benzofluoranthenes	20	33	23	70%	mg/kg	0.00288	0.058	28	MW-17	0 - 1 ft	9/14/2022	Fill	--	1.1	1	1	3%	5%	25
	Total HPAHs (ND = 1/2 RDL)	20	33	29	88%	mg/kg	0.0101	0.224	111	MW-17	0 - 1 ft	9/14/2022	Fill	--	1.1	1	1	3%	5%	101
	Total cPAHs TEQ (ND = 1/2 RDL)	20	33	27	82%	mg/kg	0.00165	0.0332	28.1	MW-17	0 - 1 ft	9/14/2022	Fill	--	0.00076	27	19	82%	95%	36,974
Soil Saturated	1-Methylnaphthalene	12	16	1	6%	mg/kg	0.00058	0.00058	0.00058	MW-17	12 - 13 ft	9/16/2022	Fill	--	20	0	0	--	--	--
	2-Methylnaphthalene	16	20	1	5%	mg/kg	0.00052	0.00052	0.00052	MW-17	12 - 13 ft	9/16/2022	Fill	--	0.67	0	0	--	--	--
	Benzo(g,h,i)perylene	16	20	4	20%	mg/kg	0.00164	0.00615	0.0152	SB-27	8 - 9 ft	3/9/2021	Alluvial	--	0.67	0	0	--	--	--
	Fluoranthene	16	20	6	30%	mg/kg	0.0006	0.00255	0.013	SB-04	8 - 9 ft	9/27/2007	Fill	--	1.7	0	0	--	--	--
	Pyrene	16	20	7	35%	mg/kg	0.00065	0.0026	0.017	SB-04	8 - 9 ft	9/27/2007	Fill	--	2.6	0	0	--	--	--
	Benz(a)anthracene	16	20	2	10%	mg/kg	0.0022	0.00425	0.0063	SB-04	8 - 9 ft	9/27/2007	Fill	--	0.73	0	0	--	--	--
	Benzo(a)pyrene	16	20	4	20%	mg/kg	0.00057	0.00595	0.0103	SB-27	8 - 9 ft	3/9/2021	Alluvial	--	0.0005	4	4	20%	25%	21
	Benzo(b)fluoranthene	16	20	4	20%	mg/kg	0.001	0.00815	0.0111	SB-27	8 - 9 ft	3/9/2021	Alluvial	--	44	0	0	--	--	--
	Chrysene	16	20	4	20%	mg/kg	0.00118	0.0067	0.0246	SB-27	8 - 9 ft	3/9/2021	Alluvial	--	1.4	0	0	--	--	--
	Dibenzo(a,h)anthracene	16	20	0	0%	--	--	--	--	--	--	--	--	--	0.23	0	0	--	--	--
	Indeno(1,2,3-cd)pyrene	16	20	3	15%	mg/kg	0.0057	0.00606	0.0061	SB-04	8 - 9 ft	9/27/2007	Fill	--	0.6	0	0	--	--	--
	Total Benzofluoranthenes	16	20	4	20%	mg/kg	0.00125	0.0102	0.0223	SB-27	8 - 9 ft	3/9/2021	Alluvial	--	1.1	0	0	--	--	--
	Total HPAHs (ND = 1/2 RDL)	16	20	8	40%	mg/kg	0.00353	0.0347	0.127	SB-27	8 - 9 ft	3/9/2021	Alluvial	--	1.1	0	0	--	--	0.1
	Total cPAHs TEQ (ND = 1/2 RDL)	16	20	5	25%	mg/kg	0.000773	0.00678	0.016	SB-27	8 - 9 ft	3/9/2021	Alluvial	--	0.00076	5	5	25%	31%	21
Groundwater	1-Methylnaphthalene	14	20	4	20%	ug/L	0.002	0.002	0.003	MW-15	-	3/30/2021	--	Fill	0.17	0	0	--	--	--
	2-Methylnaphthalene	15	21	5	24%	ug/L	0.003	0.003	0.005	MW-15	-	3/30/2021	--	Fill	14	0	0	--	--	--
	Benzo(g,h,i)perylene	15	21	0	0%	--	--	--	--	--	--	--	--	--	--	0	0	--	--	--
	Fluoranthene	15	21	3	14%	ug/L	0.002	0.002	0.003	MW-11	-	3/30/2021	--	Fill	1.8	0	0	--	--	--
	Pyrene	15	21	0	0%	--	--	--	--	--	--	--	--	--	2	0	0	--	--	--
	Benz(a)anthracene	15	21	0	0%	--	--	--	--	--	--	--	--	--	0.01	0	0	--	--	--
	Benzo(a)pyrene	15	21	0	0%	--	--	--	--	--	--	--	--	--	0.01	0	0	--	--	--
	Benzo(b)fluoranthene	15	21	0	0%	--	--	--	--	--	--	--	--	--	0.01	0	0	--	--	--
	Chrysene	15	21	2	10%	ug/L	0.002	0.002	0.002	MW-07	-	3/29/2021	--	Fill	0.016	0	0	--	--	0.1
	Dibenzo(a,h)anthracene	15	21	0	0%	--	--	--	--	--	--	--	--	--	0.01	0	0	--	--	--
	Indeno(1,2,3-cd)pyrene	15	21	0	0%	--	--	--	--	--	--	--	--	--	0.01	0	0	--	--	--
	Total Benzofluoranthenes	15	21	0	0%	--	--	--	--	--	--	--	--	--	--	0	0	--	--	--
	Total HPAHs (ND = 1/2 RDL)	15	21	3	14%	ug/L	0.049	0.05	0.052	MW-15	-	3/30/2021	--	Fill	--	0	0	--	--	--
	Total cPAHs TEQ (ND = 1/2 RDL)	15	21	2	10%	ug/L	0.00752	0.00752	0.00752	MW-07	-	3/29/2021	--	Fill	0.015	0	0	--	--	0.5

Table J.5. Summary Statistics for COPCs by Area and Media - PAHs

South Park Marina Site, Seattle, Washington

Matrix	Analyte	Number of Locations	Number of Samples	Number of Samples with Detected Conc.	Frequency of Detection	Units	Min. Detected Conc.	Median Detected Conc.	Max. Detected Conc.	Location of Max. Detection	Depth bgs of Max. Detection	Date of Max. Detection	Geologic Unit of Max. Detection (soil)	Hydrostratigraphic Unit of Max. Detection (groundwater)	Proposed RI CUL	Number of Detected Exceedances by Sample	Number of Detected Exceedances by Location	Frequency of Exceedance by Sample	Frequency of Exceedance by Location	Max. Exceedance Factor
Northwest Area																				
Soil Vadose	1-Methylnaphthalene	6	9	1	11%	mg/kg	0.00059	0.00059	0.00059	MW-21	5 - 6 ft	9/14/2022	Fill	--	20	0	0	--	--	--
	2-Methylnaphthalene	6	9	1	11%	mg/kg	0.00079	0.00079	0.00079	MW-21	5 - 6 ft	9/14/2022	Fill	--	0.67	0	0	--	--	--
	Benzo(g,h,i)perylene	6	9	9	100%	mg/kg	0.0011	0.00968	0.097	MW-20	0.5 - 1.5 ft	9/14/2022	Fill	--	0.67	0	0	--	--	0.1
	Fluoranthene	6	9	9	100%	mg/kg	0.00081	0.0102	0.18	MW-20	0.5 - 1.5 ft	9/14/2022	Fill	--	1.7	0	0	--	--	0.1
	Pyrene	6	9	9	100%	mg/kg	0.0012	0.0145	0.27	MW-20	0.5 - 1.5 ft	9/14/2022	Fill	--	2.6	0	0	--	--	0.1
	Benz(a)anthracene	6	9	9	100%	mg/kg	0.00075	0.00556	0.11	MW-20	0.5 - 1.5 ft	9/14/2022	Fill	--	0.73	0	0	--	--	0.1
	Benzo(a)pyrene	6	9	9	100%	mg/kg	0.0014	0.0077	0.22	MW-20	0.5 - 1.5 ft	9/14/2022	Fill	--	0.0005	9	6	100%	100%	440
	Benzo(b)fluoranthene	6	9	9	100%	mg/kg	0.0019	0.00737	0.27	MW-20	0.5 - 1.5 ft	9/14/2022	Fill	--	44	0	0	--	--	--
	Chrysene	6	9	9	100%	mg/kg	0.0012	0.00739	0.14	MW-20	0.5 - 1.5 ft	9/14/2022	Fill	--	1.4	0	0	--	--	0.1
	Dibenzo(a,h)anthracene	6	9	8	89%	mg/kg	0.00123	0.00186	0.017	MW-20	0.5 - 1.5 ft	9/14/2022	Fill	--	0.23	0	0	--	--	0.1
	Indeno(1,2,3-cd)pyrene	6	9	9	100%	mg/kg	0.0011	0.00638	0.092	MW-20	0.5 - 1.5 ft	9/14/2022	Fill	--	0.6	0	0	--	--	0.1
	Total Benzofluoranthenes	6	9	9	100%	mg/kg	0.00261	0.0154	0.366	MW-20	0.5 - 1.5 ft	9/14/2022	Fill	--	1.1	0	0	--	--	0.3
	Total HPAHs (ND = 1/2 RDL)	6	9	9	100%	mg/kg	0.0104	0.0848	1.49	MW-20	0.5 - 1.5 ft	9/14/2022	Fill	--	1.1	1	1	11%	17%	1.4
	Total cPAHs TEQ (ND = 1/2 RDL)	6	9	9	100%	mg/kg	0.00188	0.0101	0.28	MW-20	0.5 - 1.5 ft	9/14/2022	Fill	--	0.00076	9	6	100%	100%	368
Soil Saturated	1-Methylnaphthalene	6	11	2	18%	mg/kg	0.00551	0.375	0.745	SB-31	13 - 14.5 ft	3/1/2021	Tidal Flat	--	20	0	0	--	--	--
	2-Methylnaphthalene	6	11	2	18%	mg/kg	0.00053	0.142	0.284	SB-31	13 - 14.5 ft	3/1/2021	Tidal Flat	--	0.67	0	0	--	--	0.4
	Benzo(g,h,i)perylene	6	11	4	36%	mg/kg	0.00065	0.0016	0.014	MW-22	13 - 13.75 ft	9/14/2022	Tidal Flat	--	0.67	0	0	--	--	--
	Fluoranthene	6	11	3	27%	mg/kg	0.00153	0.0052	0.047	MW-22	13 - 13.75 ft	9/14/2022	Tidal Flat	--	1.7	0	0	--	--	--
	Pyrene	6	11	5	45%	mg/kg	0.00277	0.00293	0.052	MW-22	13 - 13.75 ft	9/14/2022	Tidal Flat	--	2.6	0	0	--	--	--
	Benz(a)anthracene	6	11	5	45%	mg/kg	0.00111	0.00215	0.016	MW-22	13 - 13.75 ft	9/14/2022	Tidal Flat	--	0.73	0	0	--	--	--
	Benzo(a)pyrene	6	11	4	36%	mg/kg	0.00112	0.00228	0.021	MW-22	13 - 13.75 ft	9/14/2022	Tidal Flat	--	0.0005	4	3	36%	50%	42
	Benzo(b)fluoranthene	6	11	5	45%	mg/kg	0.00076	0.0016	0.024	MW-22	13 - 13.75 ft	9/14/2022	Tidal Flat	--	44	0	0	--	--	--
	Chrysene	6	11	5	45%	mg/kg	0.00211	0.00334	0.019	MW-22	13 - 13.75 ft	9/14/2022	Tidal Flat	--	1.4	0	0	--	--	--
	Dibenzo(a,h)anthracene	6	11	0	0%	--	--	--	--	--	--	--	--	--	0.23	0	0	--	--	--
	Indeno(1,2,3-cd)pyrene	6	11	3	27%	mg/kg	0.00067	0.0018	0.015	MW-22	13 - 13.75 ft	9/14/2022	Tidal Flat	--	0.6	0	0	--	--	--
	Total Benzofluoranthenes	6	11	4	36%	mg/kg	0.00101	0.00398	0.031	MW-22	13 - 13.75 ft	9/14/2022	Tidal Flat	--	1.1	0	0	--	--	--
	Total HPAHs (ND = 1/2 RDL)	6	11	6	55%	mg/kg	0.00383	0.0244	0.218	MW-22	13 - 13.75 ft	9/14/2022	Tidal Flat	--	1.1	0	0	--	--	0.2
	Total cPAHs TEQ (ND = 1/2 RDL)	6	11	6	55%	mg/kg	0.000471	0.00295	0.0276	MW-22	13 - 13.75 ft	9/14/2022	Tidal Flat	--	0.00076	5	3	45%	50%	36
Groundwater	1-Methylnaphthalene	4	5	1	20%	ug/L	0.011	0.011	0.011	MW-13	-	3/31/2021	--	Fill	0.17	0	0	--	--	0.1
	2-Methylnaphthalene	4	5	0	0%	--	--	--	--	--	--	--	--	--	14	0	0	--	--	--
	Benzo(g,h,i)perylene	4	5	0	0%	--	--	--	--	--	--	--	--	--	--	0	0	--	--	--
	Fluoranthene	4	5	1	20%	ug/L	0.003	0.003	0.003	MW-13	-	3/31/2021	--	Fill	1.8	0	0	--	--	--
	Pyrene	4	5	1	20%	ug/L	0.002	0.002	0.002	MW-13	-	3/31/2021	--	Fill	2	0	0	--	--	--
	Benz(a)anthracene	4	5	0	0%	--	--	--	--	--	--	--	--	--	0.01	0	0	--	--	--
	Benzo(a)pyrene	4	5	0	0%	--	--	--	--	--	--	--	--	--	0.01	0	0	--	--	--
	Benzo(b)fluoranthene	4	5	0	0%	--	--	--	--	--	--	--	--	--	0.01	0	0	--	--	--
	Chrysene	4	5	0	0%	--	--	--	--	--	--	--	--	--	0.016	0	0	--	--	--
	Dibenzo(a,h)anthracene	4	5	0	0%	--	--	--	--	--	--	--	--	--	0.01	0	0	--	--	--
	Indeno(1,2,3-cd)pyrene	4	5	0	0%	--	--	--	--	--	--	--	--	--	0.01	0	0	--	--	--
	Total Benzofluoranthenes	4	5	0	0%	--	--	--	--	--	--	--	--	--	--	0	0	--	--	--
	Total HPAHs (ND = 1/2 RDL)	4	5	1	20%	ug/L	0.05	0.05	0.05	MW-13	-	3/31/2021	--	Fill	--	0	0	--	--	--
	Total cPAHs TEQ (ND = 1/2 RDL)	4	5	0	0%	--	--	--	--	--	--	--	--	--	0.015	0	0	--	--	--

Notes:

bgs - below ground surface
ft - feet
Proposed RI CUL - Proposed Remedial Investigation Cleanup Level; refer to Section 6.2.
TEQ = toxic equivalency
mg/kg - milligrams per kilogram
ug/L - micrograms per liter
Max. Exceedanace Factor - Maximum detected concentration divided by the Proposed RI CUL
ND = 1/2 RDL - calculated using one-half the reported detection limit (RDL) for non-detect values
HPAHs = high molecular weight polycyclic aromatic hydrocarbons: fluoranthene, pyrene, benz(a)anthracene, chrysene, total benzofluoranthenes, benzo(a)pyrene, indeno(1,2,3,-c,d)pyrene, dibenzo(a,h)anthracene, and benzo(g,h,i)perylene.
cPAHs = carcinogenic polycyclic aromatic hydrocarbons: benzo(a)pyrene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene.
-- - not detected or no detections exceed Proposed RI CUL
Blank - Not applicable for the media
Vadose soil is soil between 0 and 6 ft bgs.
Saturated soil is soil at depths equal to or greater than 6 ft bgs.

Table J.6. Summary Statistics for COPCs by Area and Media - SVOCs

South Park Marina Site, Seattle, Washington

Matrix	Analyte	Number of Locations	Number of Samples	Number of Samples with Detected Conc.	Frequency of Detection	Units	Min. Detected Conc.	Median Detected Conc.	Max. Detected Conc.	Location of Max. Detection	Depth bgs of Max. Detection	Date of Max. Detection	Geologic Unit of Max. Detection (soil)	Hydrostratigraphic Unit of Max. Detection (groundwater)	Proposed RI CUL	Number of Detected Exceedances by Sample	Number of Detected Exceedances by Location	Frequency of Exceedance by Sample	Frequency of Exceedance by Location	Max. Exceedance Factor
Pond Area (within the South Area)																				
Soil Vadose	2,4-Dimethylphenol	10	14	0	0%	--	--	--	--	--	--	--	--	--	0.029	0	0	--	--	--
	2,4-Dinitrophenol	10	14	0	0%	--	--	--	--	--	--	--	--	--	0.075	0	0	--	--	--
	2-Methylphenol	16	21	1	5%	mg/kg	0.0902	0.0902	0.0902	MW-04	0 - 1 ft	3/4/2021	Fill	--	0.063	1	1	5%	6%	1.4
	Benzyl alcohol	16	21	0	0%	--	--	--	--	--	--	--	--	--	0.057	0	0	--	--	--
	Benzyl butyl phthalate	16	21	2	10%	mg/kg	0.0913	1.15	2.2	SB-11	2.5 - 2.75 ft	9/28/2007	Fill	--	0.063	2	2	10%	13%	35
	Bis(2-ethylhexyl) phthalate	16	21	4	19%	mg/kg	0.0654	1.53	7	SB-16	3.5 - 4 ft	10/1/2007	Fill	--	0.04	4	4	19%	25%	175
	Di-n-butyl phthalate	16	21	7	33%	mg/kg	0.0077	0.378	3.6	MW-16	1.5 - 2 ft	9/23/2022	Fill	--	0.025	6	6	29%	38%	144
	Diethyl phthalate	16	21	0	0%	--	--	--	--	--	--	--	--	--	0.2	0	0	--	--	--
	Dimethyl phthalate	16	21	5	24%	mg/kg	0.0095	0.23	0.76	SB-42	0 - 1 ft	9/22/2022	Fill	--	0.071	3	3	14%	19%	11
	Hexachlorobenzene	16	21	0	0%	--	--	--	--	--	--	--	--	--	0.0025	0	0	--	--	--
	N-Nitrosodiphenylamine	16	21	1	5%	mg/kg	0.0506	0.0506	0.0506	SB-26	0 - 1 ft	3/4/2021	Fill	--	0.028	1	1	5%	6%	1.8
	Pentachlorophenol	16	21	7	33%	mg/kg	0.118	2.3	14	MW-16	1.5 - 2 ft	9/23/2022	Fill	--	0.36	6	5	29%	31%	39
Soil Saturated	2,4-Dimethylphenol	13	30	1	3%	mg/kg	0.0376	0.0376	0.0376	MW-04	7 - 8 ft	3/4/2021	Fill	--	0.029	1	1	3%	8%	1.3
	2,4-Dinitrophenol	13	30	1	3%	mg/kg	2.3	2.3	2.3	SB-21	9 - 9 ft	7/27/2011	--	--	0.075	1	1	3%	8%	31
	2-Methylphenol	16	34	0	0%	--	--	--	--	--	--	--	--	--	0.063	0	0	--	--	--
	Benzyl alcohol	16	34	0	0%	--	--	--	--	--	--	--	--	--	0.057	0	0	--	--	--
	Benzyl butyl phthalate	16	34	2	6%	mg/kg	0.052	0.0725	0.093	MW-05D	13 - 14 ft	9/21/2022	Tidal Flat	--	0.063	1	1	3%	6%	1.5
	Bis(2-ethylhexyl) phthalate	16	34	11	32%	mg/kg	0.0373	0.617	2	SB-14	7.5 - 8 ft	10/1/2007	Fill	--	0.04	10	6	29%	38%	50
	Di-n-butyl phthalate	16	34	1	3%	mg/kg	0.0092	0.0092	0.0092	MW-05	15 - 16 ft	3/5/2021	Alluvial	--	0.025	0	0	--	--	0.4
	Diethyl phthalate	16	34	3	9%	mg/kg	0.0496	0.0667	0.124	SB-26	5.5 - 6.5 ft	3/4/2021	Fill	--	0.2	0	0	--	--	0.6
	Dimethyl phthalate	16	34	0	0%	--	--	--	--	--	--	--	--	--	0.071	0	0	--	--	--
	Hexachlorobenzene	16	34	1	3%	mg/kg	0.0469	0.0469	0.0469	MW-05	6 - 7 ft	3/5/2021	Fill	--	0.022	1	1	3%	6%	2.1
	N-Nitrosodiphenylamine	16	34	1	3%	mg/kg	0.0995	0.0995	0.0995	MW-05	6 - 7 ft	3/5/2021	Fill	--	0.028	1	1	3%	6%	3.5
	Pentachlorophenol	16	34	1	3%	mg/kg	0.028	0.028	0.028	SB-03	7 - 8 ft	9/27/2007	Fill	--	0.36	0	0	--	--	0.1
Groundwater	2,4-Dimethylphenol	9	13	0	0%	--	--	--	--	--	--	--	--	--	2.9	0	0	--	--	--
	2,4-Dinitrophenol	8	12	0	0%	--	--	--	--	--	--	--	--	--	100	0	0	--	--	--
	2-Methylphenol	9	13	1	8%	ug/L	0.06	0.06	0.06	MW-05	-	3/31/2021	--	Fill	9.8	0	0	--	--	--
	Benzyl alcohol	9	13	0	0%	--	--	--	--	--	--	--	--	--	56	0	0	--	--	--
	Benzyl butyl phthalate	9	13	0	0%	--	--	--	--	--	--	--	--	--	1	0	0	--	--	--
	Bis(2-ethylhexyl) phthalate	9	13	2	15%	ug/L	0.6	0.6	0.6	MW-04	-	3/31/2021	--	Fill	0.2	2	2	15%	22%	3
	Di-n-butyl phthalate	9	13	2	15%	ug/L	0.08	0.29	0.5	MW-05	-	3/31/2021	--	Fill	8	0	0	--	--	0.1
	Diethyl phthalate	9	13	2	15%	ug/L	0.047	0.723	1.4	MW-04	-	3/31/2021	--	Fill	93	0	0	--	--	--
	Dimethyl phthalate	9	13	0	0%	--	--	--	--	--	--	--	--	--	59	0	0	--	--	--
	Hexachlorobenzene	9	13	0	0%	--	--	--	--	--	--	--	--	--	0.1	0	0	--	--	--
	N-Nitrosodiphenylamine	9	13	2	15%	ug/L	0.3	0.35	0.4	MW-05	-	10/26/2022	--	Fill	0.55	0	0	--	--	0.7
	Pentachlorophenol	9	13	0	0%	--	--	--	--	--	--	--	--	--	0.5	0	0	--	--	--

Table J.6. Summary Statistics for COPCs by Area and Media - SVOCs

South Park Marina Site, Seattle, Washington

Matrix	Analyte	Number of Locations	Number of Samples	Number of Samples with Detected Conc.	Frequency of Detection	Units	Min. Detected Conc.	Median Detected Conc.	Max. Detected Conc.	Location of Max. Detection	Depth bgs of Max. Detection	Date of Max. Detection	Geologic Unit of Max. Detection (soil)	Hydrostratigraphic Unit of Max. Detection (groundwater)	Proposed RI CUL	Number of Detected Exceedances by Sample	Number of Detected Exceedances by Location	Frequency of Exceedance by Sample	Frequency of Exceedance by Location	Max. Exceedance Factor
South Area (including Pond Area)																				
Soil Vadose	2,4-Dimethylphenol	20	30	0	0%	--	--	--	--	--	--	--	--	--	0.029	0	0	--	--	--
	2,4-Dinitrophenol	20	30	0	0%	--	--	--	--	--	--	--	--	--	0.075	0	0	--	--	--
	2-Methylphenol	27	38	1	3%	mg/kg	0.0902	0.0902	0.0902	MW-04	0 - 1 ft	3/4/2021	Fill	--	0.063	1	1	3%	4%	1.4
	Benzyl alcohol	27	38	4	11%	mg/kg	0.034	0.351	0.71	21F-SS-01	0 - 0.07 ft	9/14/2021	Fill	--	0.057	3	3	8%	11%	12
	Benzyl butyl phthalate	27	38	4	11%	mg/kg	0.0616	0.0916	2.2	SB-11	2.5 - 2.75 ft	9/28/2007	Fill	--	0.063	3	3	8%	11%	35
	Bis(2-ethylhexyl) phthalate	27	38	12	32%	mg/kg	0.059	0.442	7	SB-16	3.5 - 4 ft	10/1/2007	Fill	--	0.04	12	10	32%	37%	175
	Di-n-butyl phthalate	27	38	11	29%	mg/kg	0.0054	0.113	3.6	MW-16	1.5 - 2 ft	9/23/2022	Fill	--	0.025	8	8	21%	30%	144
	Diethyl phthalate	27	38	2	5%	mg/kg	0.0185	0.0236	0.0286	HA-01	0 - 1 ft	3/11/2021	Fill	--	0.2	0	0	--	--	0.1
	Dimethyl phthalate	27	38	10	26%	mg/kg	0.0095	0.215	2.3	21F-SS-01	0 - 0.07 ft	9/14/2021	Fill	--	0.071	7	7	18%	26%	32
	Hexachlorobenzene	27	38	0	0%	--	--	--	--	--	--	--	--	--	0.0025	0	0	--	--	--
	N-Nitrosodiphenylamine	27	38	1	3%	mg/kg	0.0506	0.0506	0.0506	SB-26	0 - 1 ft	3/4/2021	Fill	--	0.028	1	1	3%	4%	1.8
	Pentachlorophenol	27	38	15	39%	mg/kg	0.0652	0.429	14	MW-16	1.5 - 2 ft	9/23/2022	Fill	--	0.36	10	8	26%	30%	39
Soil Saturated	2,4-Dimethylphenol	20	40	1	3%	mg/kg	0.0376	0.0376	0.0376	MW-04	7 - 8 ft	3/4/2021	Fill	--	0.029	1	1	3%	5%	1.3
	2,4-Dinitrophenol	20	40	1	3%	mg/kg	2.3	2.3	2.3	SB-21	9 - 9 ft	7/27/2011	--	--	0.075	1	1	3%	5%	31
	2-Methylphenol	28	49	0	0%	--	--	--	--	--	--	--	--	--	0.063	0	0	--	--	--
	Benzyl alcohol	28	49	2	4%	mg/kg	0.0041	0.0059	0.0077	SB-02	9 - 11 ft	9/28/2007	Tidal Flat	--	0.057	0	0	--	--	0.1
	Benzyl butyl phthalate	28	49	3	6%	mg/kg	0.0052	0.052	0.093	MW-05D	13 - 14 ft	9/21/2022	Tidal Flat	--	0.063	1	1	2%	4%	1.5
	Bis(2-ethylhexyl) phthalate	28	49	11	22%	mg/kg	0.0373	0.617	2	SB-14	7.5 - 8 ft	10/1/2007	Fill	--	0.04	10	6	20%	21%	50
	Di-n-butyl phthalate	28	49	1	2%	mg/kg	0.0092	0.0092	0.0092	MW-05	15 - 16 ft	3/5/2021	Alluvial	--	0.025	0	0	--	--	0.4
	Diethyl phthalate	28	49	3	6%	mg/kg	0.0496	0.0667	0.124	SB-26	5.5 - 6.5 ft	3/4/2021	Fill	--	0.2	0	0	--	--	0.6
	Dimethyl phthalate	28	49	1	2%	mg/kg	0.026	0.026	0.026	SB-02	9 - 11 ft	9/28/2007	Tidal Flat	--	0.071	0	0	--	--	0.4
	Hexachlorobenzene	28	49	1	2%	mg/kg	0.0469	0.0469	0.0469	MW-05	6 - 7 ft	3/5/2021	Fill	--	0.022	1	1	2%	4%	2.1
	N-Nitrosodiphenylamine	28	49	1	2%	mg/kg	0.0995	0.0995	0.0995	MW-05	6 - 7 ft	3/5/2021	Fill	--	0.028	1	1	2%	4%	3.5
	Pentachlorophenol	28	49	3	6%	mg/kg	0.014	0.028	0.041	SB-02	9 - 11 ft	9/28/2007	Tidal Flat	--	0.36	0	0	--	--	0.1
Groundwater	2,4-Dimethylphenol	11	15	0	0%	--	--	--	--	--	--	--	--	--	2.9	0	0	--	--	--
	2,4-Dinitrophenol	9	13	0	0%	--	--	--	--	--	--	--	--	--	100	0	0	--	--	--
	2-Methylphenol	11	15	1	7%	ug/L	0.06	0.06	0.06	MW-05	-	3/31/2021	--	Fill	9.8	0	0	--	--	--
	Benzyl alcohol	11	15	0	0%	--	--	--	--	--	--	--	--	--	56	0	0	--	--	--
	Benzyl butyl phthalate	11	15	0	0%	--	--	--	--	--	--	--	--	--	1	0	0	--	--	--
	Bis(2-ethylhexyl) phthalate	11	15	3	20%	ug/L	0.6	0.6	2.6	MW-18D	-	10/31/2022	--	Alluvial	0.2	3	3	20%	27%	13
	Di-n-butyl phthalate	11	15	3	20%	ug/L	0.08	0.08	0.5	MW-05	-	3/31/2021	--	Fill	8	0	0	--	--	0.1
	Diethyl phthalate	11	15	3	20%	ug/L	0.047	0.059	1.4	MW-04	-	3/31/2021	--	Fill	93	0	0	--	--	--
	Dimethyl phthalate	11	15	0	0%	--	--	--	--	--	--	--	--	--	59	0	0	--	--	--
	Hexachlorobenzene	11	15	0	0%	--	--	--	--	--	--	--	--	--	0.1	0	0	--	--	--
	N-Nitrosodiphenylamine	11	15	2	13%	ug/L	0.3	0.35	0.4	MW-05	-	10/26/2022	--	Fill	0.55	0	0	--	--	0.7
	Pentachlorophenol	11	15	0	0%	--	--	--	--	--	--	--	--	--	0.5	0	0	--	--	--

Table J.6. Summary Statistics for COPCs by Area and Media - SVOCs

South Park Marina Site, Seattle, Washington

Matrix	Analyte	Number of Locations	Number of Samples	Number of Samples with Detected Conc.	Frequency of Detection	Units	Min. Detected Conc.	Median Detected Conc.	Max. Detected Conc.	Location of Max. Detection	Depth bgs of Max. Detection	Date of Max. Detection	Geologic Unit of Max. Detection (soil)	Hydrostratigraphic Unit of Max. Detection (groundwater)	Proposed RI CUL	Number of Detected Exceedances by Sample	Number of Detected Exceedances by Location	Frequency of Exceedance by Sample	Frequency of Exceedance by Location	Max. Exceedance Factor
Central Area																				
Soil Vadose	2,4-Dimethylphenol	18	25	0	0%	--	--	--	--	--	--	--	--	--	0.029	0	0	--	--	--
	2,4-Dinitrophenol	18	25	0	0%	--	--	--	--	--	--	--	--	--	0.075	0	0	--	--	--
	2-Methylphenol	18	25	0	0%	--	--	--	--	--	--	--	--	--	0.063	0	0	--	--	--
	Benzyl alcohol	18	25	2	8%	mg/kg	0.0149	0.0764	0.138	MW-14	0 - 1 ft	3/10/2021	Fill	--	0.057	1	1	4%	6%	2.4
	Benzyl butyl phthalate	18	25	5	20%	mg/kg	0.0096	0.0303	0.122	SB-27	0 - 1 ft	3/9/2021	Fill	--	0.063	1	1	4%	6%	1.9
	Bis(2-ethylhexyl) phthalate	18	25	8	32%	mg/kg	0.0466	0.067	0.981	SB-27	0 - 1 ft	3/9/2021	Fill	--	0.04	8	8	32%	44%	25
	Di-n-butyl phthalate	18	25	8	32%	mg/kg	0.0055	0.0195	0.268	SB-27	0 - 1 ft	3/9/2021	Fill	--	0.025	3	3	12%	17%	11
	Diethyl phthalate	18	25	4	16%	mg/kg	0.023	0.155	0.982	MW-11	0 - 1 ft	3/8/2021	Fill	--	0.2	2	2	8%	11%	4.9
	Dimethyl phthalate	18	25	6	24%	mg/kg	0.0178	0.156	0.271	MW-14	0 - 1 ft	3/10/2021	Fill	--	0.071	4	4	16%	22%	3.8
	Hexachlorobenzene	18	25	0	0%	--	--	--	--	--	--	--	--	--	0.0025	0	0	--	--	--
	N-Nitrosodiphenylamine	18	25	0	0%	--	--	--	--	--	--	--	--	--	0.028	0	0	--	--	--
	Pentachlorophenol	18	25	0	0%	--	--	--	--	--	--	--	--	--	0.36	0	0	--	--	--
Soil Saturated	2,4-Dimethylphenol	12	14	0	0%	--	--	--	--	--	--	--	--	--	0.029	0	0	--	--	--
	2,4-Dinitrophenol	12	14	0	0%	--	--	--	--	--	--	--	--	--	0.075	0	0	--	--	--
	2-Methylphenol	16	18	0	0%	--	--	--	--	--	--	--	--	--	0.063	0	0	--	--	--
	Benzyl alcohol	16	18	0	0%	--	--	--	--	--	--	--	--	--	0.057	0	0	--	--	--
	Benzyl butyl phthalate	16	18	0	0%	--	--	--	--	--	--	--	--	--	0.063	0	0	--	--	--
	Bis(2-ethylhexyl) phthalate	16	18	1	6%	mg/kg	0.03	0.03	0.03	SB-27	8 - 9 ft	3/9/2021	Alluvial	--	0.04	0	0	--	--	0.8
	Di-n-butyl phthalate	16	18	1	6%	mg/kg	0.006	0.006	0.006	SB-27	8 - 9 ft	3/9/2021	Alluvial	--	0.025	0	0	--	--	0.2
	Diethyl phthalate	16	18	0	0%	--	--	--	--	--	--	--	--	--	0.2	0	0	--	--	--
	Dimethyl phthalate	16	18	1	6%	mg/kg	0.0067	0.0067	0.0067	SB-10	14 - 15 ft	9/28/2007	Tidal Flat	--	0.071	0	0	--	--	0.1
	Hexachlorobenzene	16	18	0	0%	--	--	--	--	--	--	--	--	--	0.022	0	0	--	--	--
	N-Nitrosodiphenylamine	16	18	0	0%	--	--	--	--	--	--	--	--	--	0.028	0	0	--	--	--
	Pentachlorophenol	16	18	1	6%	mg/kg	0.079	0.079	0.079	SB-10	14 - 15 ft	9/28/2007	Tidal Flat	--	0.36	0	0	--	--	0.2
Groundwater	2,4-Dimethylphenol	15	19	0	0%	--	--	--	--	--	--	--	--	--	2.9	0	0	--	--	--
	2,4-Dinitrophenol	14	18	0	0%	--	--	--	--	--	--	--	--	--	100	0	0	--	--	--
	2-Methylphenol	15	19	0	0%	--	--	--	--	--	--	--	--	--	9.8	0	0	--	--	--
	Benzyl alcohol	15	19	0	0%	--	--	--	--	--	--	--	--	--	56	0	0	--	--	--
	Benzyl butyl phthalate	15	19	0	0%	--	--	--	--	--	--	--	--	--	1	0	0	--	--	--
	Bis(2-ethylhexyl) phthalate	15	19	1	5%	ug/L	1.6	1.6	1.6	MW-19	-	10/27/2022	--	Fill	0.2	1	1	5%	7%	8
	Di-n-butyl phthalate	15	19	2	11%	ug/L	0.05	0.0575	0.065	MW-01	-	10/9/2007	--	Alluvial	8	0	0	--	--	--
	Diethyl phthalate	15	19	3	16%	ug/L	0.036	0.07	0.1	MW-11	-	3/30/2021	--	Fill	93	0	0	--	--	--
	Dimethyl phthalate	15	19	0	0%	--	--	--	--	--	--	--	--	--	59	0	0	--	--	--
	Hexachlorobenzene	15	20	0	0%	--	--	--	--	--	--	--	--	--	0.1	0	0	--	--	--
	N-Nitrosodiphenylamine	15	19	0	0%	--	--	--	--	--	--	--	--	--	0.55	0	0	--	--	--
	Pentachlorophenol	15	19	0	0%	--	--	--	--	--	--	--	--	--	0.5	0	0	--	--	--
Northwest Area																				
Groundwater	2,4-Dimethylphenol	4	4	0	0%	--	--	--	--	--	--	--	--	--	2.9	0	0	--	--	--
	2,4-Dinitrophenol	4	4	0	0%	--	--	--	--	--	--	--	--	--	100	0	0	--	--	--
	2-Methylphenol	4	4	0	0%	--	--	--	--	--	--	--	--	--	9.8	0	0	--	--	--
	Benzyl alcohol	4	4	0	0%	--	--	--	--	--	--	--	--	--	56	0	0	--	--	--
	Benzyl butyl phthalate	4	4	0	0%	--	--	--	--	--	--	--	--	--	1	0	0	--	--	--
	Bis(2-ethylhexyl) phthalate	4	4	0	0%	--	--	--	--	--	--	--	--	--	0.2	0	0	--	--	--
	Di-n-butyl phthalate	4	4	0	0%	--	--	--	--	--	--	--	--	--	8	0	0	--	--	--
	Diethyl phthalate	4	4	0	0%	--	--	--	--	--	--	--	--	--	93	0	0	--	--	--
	Dimethyl phthalate	4	4	0	0%	--	--	--	--	--	--	--	--	--	59	0	0	--	--	--
	Hexachlorobenzene	4	4	0	0%	--	--	--	--	--	--	--	--	--	0.1	0	0	--	--	--
	N-Nitrosodiphenylamine	4	4	0	0%	--	--	--	--	--	--	--	--	--	0.55	0	0	--	--	--
	Pentachlorophenol	4	4	0	0%	--	--	--	--	--	--	--	--	--	0.5	0	0	--	--	--

Notes:

bgs - below ground surface
mg/kg - milligrams per kilogram
-- - not detected or no detections exceed Proposed RI CUL
Blank - Not applicable for the media
Vadose soil is soil between 0 and 6 ft bgs.
Saturated soil is soil at depths equal to or greater than 6 ft bgs.

ft - feet
ug/L - micrograms per liter

Proposed RI CUL - Proposed Remedial Investigation Cleanup Level; refer to Section 6.2.
Max. Exceedanace Factor - Maximum detected concentration divided by the Proposed RI CUL

Table J.7. Summary Statistics for COPCs by Area and Media - Pesticides

South Park Marina Site, Seattle, Washington

Matrix	Analyte	Number of Locations	Number of Samples	Number of Samples with Detected Conc.	Frequency of Detection	Units	Min. Detected Conc.	Median Detected Conc.	Max. Detected Conc.	Location of Max. Detection	Depth bgs of Max. Detection	Date of Max. Detection	Geologic Unit of Max. Detection (soil)	Hydrostratigraphic Unit of Max. Detection (groundwater)	Proposed RI CUL	Number of Detected Exceedances by Sample	Number of Detected Exceedances by Location	Frequency of Exceedance by Sample	Frequency of Exceedance by Location	Max. Exceedance Factor
Pond Area (within the South Area)																				
Soil Vadose	4,4'-DDE	16	21	7	33%	mg/kg	0.0042	0.3	0.75	MW-16	0 - 1 ft	9/23/2022	Fill	--	0.001	7	6	33%	38%	750
	4,4'-DDT	16	21	5	24%	mg/kg	0.0013	1.1	4	SB-16	3.5 - 4 ft	10/1/2007	Fill	--	0.001	5	5	24%	31%	4,000
	Aldrin	16	21	7	33%	mg/kg	0.0694	0.27	3.5	SB-11	2.5 - 2.75 ft	9/28/2007	Fill	--	0.0017	7	7	33%	44%	2,059
	Alpha-BHC	10	14	0	0%	--	--	--	--	--	--	--	--	--	0.0005	0	0	--	--	--
	cis-Chlordane	10	14	0	0%	--	--	--	--	--	--	--	--	--	0.0005	0	0	--	--	--
	Delta-BHC	10	14	0	0%	--	--	--	--	--	--	--	--	--	0.0048	0	0	--	--	--
	Dieldrin	16	21	7	33%	mg/kg	0.0021	0.85	0.92	SB-14	3 - 3.5 ft	10/1/2007	Fill	--	0.001	7	7	33%	44%	920
	Endrin Aldehyde	10	14	0	0%	--	--	--	--	--	--	--	--	--	0.0024	0	0	--	--	--
	Heptachlor	16	21	0	0%	--	--	--	--	--	--	--	--	--	0.0005	0	0	--	--	--
	trans-Chlordane	10	14	1	7%	mg/kg	0.00065	0.00065	0.00065	MW-06	4 - 5 ft	3/5/2021	Fill	--	0.0017	0	0	--	--	0.4
Soil Saturated	4,4'-DDE	16	36	10	28%	mg/kg	0.0029	0.125	0.39	SB-14	7.5 - 8 ft	10/1/2007	Fill	--	0.001	10	9	28%	56%	390
	4,4'-DDT	16	36	3	8%	mg/kg	0.01	1.2	1.6	SB-13	7 - 7.5 ft	10/1/2007	Tidal Flat	--	0.001	3	3	8%	19%	1,600
	Aldrin	16	36	18	50%	mg/kg	0.00523	0.643	20.3	MW-05	6 - 7 ft	3/5/2021	Fill	--	0.0017	18	10	50%	63%	11,941
	Alpha-BHC	13	32	1	3%	mg/kg	0.014	0.014	0.014	MW-04	13.5 - 14.5 ft	3/4/2021	Alluvial	--	0.0005	1	1	3%	8%	28
	cis-Chlordane	13	32	1	3%	mg/kg	0.047	0.047	0.047	SB-21	9 - 9 ft	7/27/2011	--	--	0.0005	1	1	3%	8%	94
	Delta-BHC	13	32	2	6%	mg/kg	0.017	0.0365	0.056	SB-22	10 - 10 ft	7/27/2011	--	--	0.0048	2	2	6%	15%	12
	Dieldrin	16	36	13	36%	mg/kg	0.00114	0.082	3.1	MW-05	6 - 7 ft	3/5/2021	Fill	--	0.001	13	8	36%	50%	3,100
	Endrin Aldehyde	13	32	2	6%	mg/kg	0.036	0.098	0.16	SB-21	9 - 9 ft	7/27/2011	--	--	0.011	2	2	6%	15%	15
	Heptachlor	16	36	2	6%	mg/kg	0.0076	0.0123	0.017	SB-22	10 - 10 ft	7/27/2011	--	--	0.0005	2	2	6%	13%	34
	trans-Chlordane	13	32	1	3%	mg/kg	0.18	0.18	0.18	SB-21	9 - 9 ft	7/27/2011	--	--	0.0017	1	1	3%	8%	106
Groundwater	4,4'-DDE	9	14	1	7%	ug/L	0.014	0.014	0.014	MW-04	-	10/27/2022	--	Fill	0.0013	1	1	7%	11%	11
	4,4'-DDT	9	14	1	7%	ug/L	0.0014	0.0014	0.0014	MW-03	-	3/12/2008	--	Alluvial	0.0013	1	1	7%	11%	1.1
	Aldrin	9	14	7	50%	ug/L	0.0012	0.019	0.78	MW-04	-	10/27/2022	--	Fill	0.00063	7	5	50%	56%	1,238
	Alpha-BHC	8	12	1	8%	ug/L	0.0031	0.0031	0.0031	MW-06	-	3/29/2021	--	Fill	0.00063	1	1	8%	13%	4.9
	cis-Chlordane	9	13	0	0%	--	--	--	--	--	--	--	--	--	0.00063	0	0	--	--	--
	Delta-BHC	8	12	0	0%	--	--	--	--	--	--	--	--	--	--	0	0	--	--	--
	Dieldrin	9	14	13	93%	ug/L	0.0043	0.027	0.11	MW-04D	-	10/26/2022	--	Alluvial	0.0013	13	9	93%	100%	85
	Endrin Aldehyde	8	12	0	0%	--	--	--	--	--	--	--	--	--	0.035	0	0	--	--	--
	Heptachlor	9	14	0	0%	--	--	--	--	--	--	--	--	--	0.00063	0	0	--	--	--
	trans-Chlordane	9	13	0	0%	--	--	--	--	--	--	--	--	--	0.00063	0	0	--	--	--
South Area (including Pond Area)																				
Soil Vadose	4,4'-DDE	26	36	9	25%	mg/kg	0.0042	0.23	0.75	MW-16	0 - 1 ft	9/23/2022	Fill	--	0.001	9	8	25%	31%	750
	4,4'-DDT	26	36	10	28%	mg/kg	0.00087	0.585	4	SB-16	3.5 - 4 ft	10/1/2007	Fill	--	0.001	9	9	25%	35%	4,000
	Aldrin	26	36	8	22%	mg/kg	0.017	0.255	3.5	SB-11	2.5 - 2.75 ft	9/28/2007	Fill	--	0.0017	8	8	22%	31%	2,059
	Alpha-BHC	19	28	0	0%	--	--	--	--	--	--	--	--	--	0.0005	0	0	--	--	--
	cis-Chlordane	19	28	0	0%	--	--	--	--	--	--	--	--	--	0.0005	0	0	--	--	--
	Delta-BHC	19	28	0	0%	--	--	--	--	--	--	--	--	--	0.0048	0	0	--	--	--
	Dieldrin	26	36	8	22%	mg/kg	0.0021	0.675	0.92	SB-14	3 - 3.5 ft	10/1/2007	Fill	--	0.001	8	8	22%	31%	920
	Endrin Aldehyde	19	28	0	0%	--	--	--	--	--	--	--	--	--	0.0024	0	0	--	--	--
	Heptachlor	26	36	0	0%	--	--	--	--	--	--	--	--	--	0.0005	0	0	--	--	--
	trans-Chlordane	19	28	1	4%	mg/kg	0.00065	0.00065	0.00065	MW-06	4 - 5 ft	3/5/2021	Fill	--	0.0017	0	0	--	--	0.4
Soil Saturated	4,4'-DDE	27	52	16	31%	mg/kg	0.00045	0.00412	0.39	SB-14	7.5 - 8 ft	10/1/2007	Fill	--	0.001	14	13	27%	48%	390
	4,4'-DDT	27	52	6	12%	mg/kg	0.0018	0.00665	1.6	SB-13	7 - 7.5 ft	10/1/2007	Tidal Flat	--	0.001	6	6	12%	22%	1,600
	Aldrin	27	52	19	37%	mg/kg	0.002	0.525	20.3	MW-05	6 - 7 ft	3/5/2021	Fill	--	0.0017	19	11	37%	41%	11,941
	Alpha-BHC	19	43	2	5%	mg/kg	0.00073	0.00736	0.014	MW-04	13.5 - 14.5 ft	3/4/2021	Alluvial	--	0.0005	2	2	5%	11%	28
	cis-Chlordane	19	43	1	2%	mg/kg	0.047	0.047	0.047	SB-21	9 - 9 ft	7/27/2011	--	--	0.0005	1	1	2%	5%	94
	Delta-BHC	19	43	2	5%	mg/kg	0.017	0.0365	0.056	SB-22	10 - 10 ft	7/27/2011	--	--	0.0048	2	2	5%	11%	12
	Dieldrin	27	52	15	29%	mg/kg	0.00058	0.027	3.1	MW-05	6 - 7 ft	3/5/2021	Fill	--	0.001	14	9	27%	33%	3,100
	Endrin Aldehyde	19	43	2	5%	mg/kg	0.036	0.098	0.16	SB-21	9 - 9 ft	7/27/2011	--	--	0.011	2	2	5%	11%	15
	Heptachlor	27	52	3	6%	mg/kg	0.00056	0.0076	0.017	SB-22	10 - 10 ft	7/27/2011	--	--	0.0005	3	3	6%	11%	34
	trans-Chlordane	19	43	1	2%	mg/kg	0.18	0.18	0.18	SB-21	9 - 9 ft	7/27/2011	--	--	0.0017	1	1	2%	5%	106
Groundwater	4,4'-DDE	11	17	1	6%	ug/L	0.014	0.014	0.014	MW-04	-	10/27/2022	--	Fill	0.0013	1	1	6%	9%	11
	4,4'-DDT	11	17	3	18%	ug/L	0.00082	0.0014	0.0022	MW-02	-	10/9/2007	--	Alluvial	0.0013	2	2	12%	18%	1.7
	Aldrin	11	17	7	41%	ug/L	0.0012	0.019	0.78	MW-04	-	10/27/2022	--	Fill	0.00063	7	5	41%	45%	1,238
	Alpha-BHC	9	13	1	8%	ug/L	0.0031	0.0031	0.0031	MW-06	-	3/29/2021	--	Fill	0.00063	1	1	8%	11%	4.9
	cis-Chlordane	11	15	0	0%	--	--	--	--	--	--	--	--	--	0.00063	0	0	--	--	--
	Delta-BHC	9	13	0	0%	--	--	--	--	--	--	--	--	--	--	0	0	--	--	--
	Dieldrin	11	17	15	88%	ug/L	0.00071	0.0265	0.11	MW-04D	-	10/26/2022	--	Alluvial	0.0013	14	10	82%	91%	85
	Endrin Aldehyde	9	13	0	0%	--	--	--	--	--	--	--	--	--	0.035	0	0	--	--	--
	Heptachlor	11	17	0	0%	--	--	--	--	--	--	--	--	--	0.00063	0	0	--	--	--
	trans-Chlordane	11	15	0	0%	--	--	--	--	--	--	--	--	--	0.00063	0	0	--	--	--

Table J.7. Summary Statistics for COPCs by Area and Media - Pesticides

South Park Marina Site, Seattle, Washington

Matrix	Analyte	Number of Locations	Number of Samples	Number of Samples with Detected Conc.	Frequency of Detection	Units	Min. Detected Conc.	Median Detected Conc.	Max. Detected Conc.	Location of Max. Detection	Depth bgs of Max. Detection	Date of Max. Detection	Geologic Unit of Max. Detection (soil)	Hydrostratigraphic Unit of Max. Detection (groundwater)	Proposed RI CUL	Number of Detected Exceedances by Sample	Number of Detected Exceedances by Location	Frequency of Exceedance by Sample	Frequency of Exceedance by Location	Max. Exceedance Factor
Central Area																				
Soil Vadose	4,4'-DDE	15	23	3	13%	mg/kg	0.001	0.0019	0.0092	HA-03	0 - 1 ft	9/20/2022	Fill	--	0.001	2	2	9%	13%	9.2
	4,4'-DDT	15	23	4	17%	mg/kg	0.0018	0.0068	0.017	HA-03	0 - 1 ft	9/20/2022	Fill	--	0.001	4	3	17%	20%	17
	Aldrin	15	23	1	4%	mg/kg	0.00079	0.00079	0.00079	MW-09	0 - 1 ft	3/9/2021	Fill	--	0.0017	0	0	--	--	0.5
	Alpha-BHC	15	23	2	9%	mg/kg	0.0052	0.0186	0.032	HA-03	0 - 1 ft	9/20/2022	Fill	--	0.0005	2	1	9%	7%	64
	cis-Chlordane	15	23	2	9%	mg/kg	0.0087	0.0124	0.016	HA-06	0 - 1 ft	9/20/2022	Fill	--	0.0005	2	2	9%	13%	32
	Delta-BHC	15	23	0	0%	--	--	--	--	--	--	--	--	--	0.0048	0	0	--	--	--
	Dieldrin	15	23	2	9%	mg/kg	0.0024	0.0059	0.0094	SB-40	0 - 1 ft	9/26/2022	Fill	--	0.001	2	2	9%	13%	9.4
	Endrin Aldehyde	15	23	0	0%	--	--	--	--	--	--	--	--	--	0.0024	0	0	--	--	--
	Heptachlor	15	23	0	0%	--	--	--	--	--	--	--	--	--	0.0005	0	0	--	--	--
	trans-Chlordane	15	23	2	9%	mg/kg	0.014	0.014	0.014	HA-06	0 - 1 ft	9/20/2022	Fill	--	0.0017	2	2	9%	13%	8.2
Soil Saturated	4,4'-DDE	12	15	0	0%	--	--	--	--	--	--	--	--	--	0.001	0	0	--	--	--
	4,4'-DDT	12	15	1	7%	mg/kg	0.0036	0.0036	0.0036	SB-10	14 - 15 ft	9/28/2007	Tidal Flat	--	0.001	1	1	7%	8%	3.6
	Aldrin	12	15	0	0%	--	--	--	--	--	--	--	--	--	0.0017	0	0	--	--	--
	Alpha-BHC	8	11	0	0%	--	--	--	--	--	--	--	--	--	0.0005	0	0	--	--	--
	cis-Chlordane	8	11	0	0%	--	--	--	--	--	--	--	--	--	0.0005	0	0	--	--	--
	Delta-BHC	8	11	0	0%	--	--	--	--	--	--	--	--	--	0.0048	0	0	--	--	--
	Dieldrin	12	15	0	0%	--	--	--	--	--	--	--	--	--	0.001	0	0	--	--	--
	Endrin Aldehyde	8	11	0	0%	--	--	--	--	--	--	--	--	--	0.011	0	0	--	--	--
	Heptachlor	12	15	0	0%	--	--	--	--	--	--	--	--	--	0.0005	0	0	--	--	--
	trans-Chlordane	8	11	0	0%	--	--	--	--	--	--	--	--	--	0.0017	0	0	--	--	--
Groundwater	4,4'-DDE	15	20	0	0%	--	--	--	--	--	--	--	--	--	0.0013	0	0	--	--	--
	4,4'-DDT	15	20	0	0%	--	--	--	--	--	--	--	--	--	0.0013	0	0	--	--	--
	Aldrin	15	20	2	10%	ug/L	0.0027	0.00295	0.0032	MW-11	-	3/30/2021	--	Fill	0.00063	2	2	10%	13%	5.1
	Alpha-BHC	14	18	3	17%	ug/L	0.0027	0.0033	0.0038	MW-15	-	3/30/2021	--	Fill	0.00063	3	3	17%	21%	6
	cis-Chlordane	15	19	0	0%	--	--	--	--	--	--	--	--	--	0.00063	0	0	--	--	--
	Delta-BHC	14	18	0	0%	--	--	--	--	--	--	--	--	--	--	0	0	--	--	--
	Dieldrin	15	20	0	0%	--	--	--	--	--	--	--	--	--	0.0013	0	0	--	--	--
	Endrin Aldehyde	14	18	0	0%	--	--	--	--	--	--	--	--	--	0.035	0	0	--	--	--
	Heptachlor	15	20	0	0%	--	--	--	--	--	--	--	--	--	0.00063	0	0	--	--	--
	trans-Chlordane	15	19	0	0%	--	--	--	--	--	--	--	--	--	0.00063	0	0	--	--	--
Northwest Area																				
Soil Vadose	4,4'-DDE	1	2	0	0%	--	--	--	--	--	--	--	--	--	0.001	0	0	--	--	--
	4,4'-DDT	1	2	0	0%	--	--	--	--	--	--	--	--	--	0.001	0	0	--	--	--
	Aldrin	1	2	0	0%	--	--	--	--	--	--	--	--	--	0.0017	0	0	--	--	--
	Alpha-BHC	1	2	0	0%	--	--	--	--	--	--	--	--	--	0.0005	0	0	--	--	--
	cis-Chlordane	1	2	0	0%	--	--	--	--	--	--	--	--	--	0.0005	0	0	--	--	--
	Delta-BHC	1	2	0	0%	--	--	--	--	--	--	--	--	--	0.0048	0	0	--	--	--
	Dieldrin	1	2	0	0%	--	--	--	--	--	--	--	--	--	0.001	0	0	--	--	--
	Endrin Aldehyde	1	2	0	0%	--	--	--	--	--	--	--	--	--	0.0024	0	0	--	--	--
	Heptachlor	1	2	0	0%	--	--	--	--	--	--	--	--	--	0.0005	0	0	--	--	--
	trans-Chlordane	1	2	0	0%	--	--	--	--	--	--	--	--	--	0.0017	0	0	--	--	--
Groundwater	4,4'-DDE	4	4	0	0%	--	--	--	--	--	--	--	--	--	0.0013	0	0	--	--	--
	4,4'-DDT	4	4	0	0%	--	--	--	--	--	--	--	--	--	0.0013	0	0	--	--	--
	Aldrin	4	4	0	0%	--	--	--	--	--	--	--	--	--	0.00063	0	0	--	--	--
	Alpha-BHC	4	4	0	0%	--	--	--	--	--	--	--	--	--	0.00063	0	0	--	--	--
	cis-Chlordane	4	4	0	0%	--	--	--	--	--	--	--	--	--	0.00063	0	0	--	--	--
	Delta-BHC	4	4	0	0%	--	--	--	--	--	--	--	--	--	--	0	0	--	--	--
	Dieldrin	4	4	0	0%	--	--	--	--	--	--	--	--	--	0.0013	0	0	--	--	--
	Endrin Aldehyde	4	4	0	0%	--	--	--	--	--	--	--	--	--	0.035	0	0	--	--	--
	Heptachlor	4	4	0	0%	--	--	--	--	--	--	--	--	--	0.00063	0	0	--	--	--
	trans-Chlordane	4	4	0	0%	--	--	--	--	--	--	--	--	--	0.00063	0	0	--	--	--

Notes:

bgs - below ground surface
mg/kg - milligrams per kilogram
-- - not detected or no detections exceed Proposed RI CUL
Blank - Not applicable for the media
Vadose soil is soil between 0 and 6 ft bgs.
Saturated soil is soil at depths equal to or greater than 6 ft bgs.

ft - feet
ug/L - micrograms per liter

Proposed RI CUL - Proposed Remedial Investigation Cleanup Level; refer to Section 6.2.
Max. Exceedanace Factor - Maximum detected concentration divided by the Proposed RI CUL

Table J.8. Summary Statistics for COPCs by Area and Media - VOCs

South Park Marina Site, Seattle, Washington

Matrix	Analyte	Number of Locations	Number of Samples	Number of Samples with Detected Conc.	Frequency of Detection	Units	Min. Detected Conc.	Median Detected Conc.	Max. Detected Conc.	Location of Max. Detection	Depth bgs of Max. Detection	Date of Max. Detection	Geologic Unit of Max. Detection (soil)	Hydrostratigraphic Unit of Max. Detection (groundwater)	Proposed RI CUL	Number of Detected Exceedances by Sample	Number of Detected Exceedances by Location	Frequency of Exceedance by Sample	Frequency of Exceedance by Location	Max. Exceedance Factor
Pond Area (within the South Area)																				
Soil Vadose	Benzene	14	18	5	28%	mg/kg	0.00108	0.012	0.078	SB-16	3.5 - 4 ft	10/1/2007	Fill	--	0.0088	4	3	22%	21%	8.9
	Total Xylenes	14	18	8	44%	mg/kg	0.0011	0.0355	68	SB-16	3.5 - 4 ft	10/1/2007	Fill	--	1.4	3	3	17%	21%	49
	1,2,3-Trichloropropane	14	18	0	0%	--	--	--	--	--	--	--	--	--	0.05	0	0	--	--	--
	1,2-Dichlorobenzene	16	21	5	24%	mg/kg	0.0123	0.097	0.31	SB-16	3.5 - 4 ft	10/1/2007	Fill	--	0.05	3	3	14%	19%	6.2
	Methylene Chloride	12	14	1	7%	mg/kg	0.034	0.034	0.034	SB-11	2.5 - 2.75 ft	9/28/2007	Fill	--	0.43	0	0	--	--	0.1
	Tetrachloroethene (PCE)	14	18	16	89%	mg/kg	0.0006	0.00958	2.7	SB-43	2.5 - 3.5 ft	9/26/2022	Fill	--	0.029	4	4	22%	29%	93
	Trichloroethene (TCE)	14	18	9	50%	mg/kg	0.0005	0.0013	0.17	SB-11	2.5 - 2.75 ft	9/28/2007	Fill	--	0.0044	3	3	17%	21%	39
	Vinyl Chloride	14	18	5	28%	mg/kg	0.0014	0.0047	0.87	SB-16	3.5 - 4 ft	10/1/2007	Fill	--	0.0011	5	5	28%	36%	791
Soil Saturated	Benzene	15	29	6	21%	mg/kg	0.00055	0.00237	0.016	SB-42	10 - 11 ft	9/22/2022	Tidal Flat	--	0.001	4	4	14%	27%	16
	Total Xylenes	15	29	6	21%	mg/kg	0.0014	0.0597	4.16	SB-42	10 - 11 ft	9/22/2022	Tidal Flat	--	1.4	1	1	3%	7%	3
	1,2,3-Trichloropropane	14	28	0	0%	--	--	--	--	--	--	--	--	--	0.05	0	0	--	--	--
	1,2-Dichlorobenzene	16	35	7	20%	mg/kg	0.0049	0.0359	0.11	SB-22	10 - 10 ft	7/27/2011	--	--	0.05	3	3	9%	19%	2.2
	Methylene Chloride	10	22	1	5%	mg/kg	0.114	0.114	0.114	MW-04	7 - 8 ft	3/4/2021	Fill	--	2.6	0	0	--	--	--
	Tetrachloroethene (PCE)	14	28	8	29%	mg/kg	0.00108	0.00245	0.00381	MW-06	9 - 9 ft	3/5/2021	Tidal Flat	--	0.0016	7	7	25%	50%	2.4
	Trichloroethene (TCE)	14	28	3	11%	mg/kg	0.00063	0.0007	0.0062	SB-42	10 - 11 ft	9/22/2022	Tidal Flat	--	0.001	1	1	4%	7%	6.2
	Vinyl Chloride	14	28	1	4%	mg/kg	0.001	0.001	0.001	SB-42	10 - 11 ft	9/22/2022	Tidal Flat	--	0.001	0	0	--	--	1
Groundwater	Benzene	9	14	2	14%	ug/L	0.54	0.585	0.63	MW-05	-	3/31/2021	--	Fill	1.6	0	0	--	--	0.4
	Total Xylenes	9	14	1	7%	ug/L	2.72	2.72	2.72	MW-05	-	3/31/2021	--	Fill	110	0	0	--	--	--
	1,2,3-Trichloropropane	9	14	0	0%	--	--	--	--	--	--	--	--	--	20	0	0	--	--	--
	1,2-Dichlorobenzene	9	14	3	21%	ug/L	0.11	0.69	3.34	MW-05	-	3/31/2021	--	Fill	4.5	0	0	--	--	0.7
	Methylene Chloride	9	14	5	36%	ug/L	6	6.2	7.8	MW-06	-	10/26/2022	--	Fill	100	0	0	--	--	0.1
	Tetrachloroethene (PCE)	9	14	8	57%	ug/L	0.1	1	2.99	MW-06	-	3/29/2021	--	Fill	2.9	1	1	7%	11%	1
	Trichloroethene (TCE)	9	14	2	14%	ug/L	0.09	0.1	0.11	MW-04	-	3/31/2021	--	Fill	0.7	0	0	--	--	0.2
	Vinyl Chloride	9	14	2	14%	ug/L	0.23	0.29	0.35	MW-05	-	3/31/2021	--	Fill	0.18	2	1	14%	11%	1.9
South Area (including Pond Area)																				
Soil Vadose	Benzene	24	35	6	17%	mg/kg	0.00096	0.0107	0.078	SB-16	3.5 - 4 ft	10/1/2007	Fill	--	0.0088	4	3	11%	13%	8.9
	Total Xylenes	24	35	14	40%	mg/kg	0.0011	0.0109	68	SB-16	3.5 - 4 ft	10/1/2007	Fill	--	1.4	3	3	9%	13%	49
	1,2,3-Trichloropropane	24	35	0	0%	--	--	--	--	--	--	--	--	--	0.05	0	0	--	--	--
	1,2-Dichlorobenzene	27	40	5	13%	mg/kg	0.0123	0.097	0.31	SB-16	3.5 - 4 ft	10/1/2007	Fill	--	0.05	3	3	8%	11%	6.2
	Methylene Chloride	22	29	3	10%	mg/kg	0.034	0.24	0.34	SB-37	0 - 1 ft	9/13/2022	Fill	--	0.43	0	0	--	--	0.8
	Tetrachloroethene (PCE)	24	35	29	83%	mg/kg	0.0006	0.014	2.7	SB-43	2.5 - 3.5 ft	9/26/2022	Fill	--	0.029	8	7	23%	29%	93
	Trichloroethene (TCE)	24	35	14	40%	mg/kg	0.0005	0.00203	0.17	SB-11	2.5 - 2.75 ft	9/28/2007	Fill	--	0.0044	5	5	14%	21%	39
	Vinyl Chloride	24	35	5	14%	mg/kg	0.0014	0.0047	0.87	SB-16	3.5 - 4 ft	10/1/2007	Fill	--	0.0011	5	5	14%	21%	791
Soil Saturated	Benzene	22	45	6	13%	mg/kg	0.00055	0.00237	0.016	SB-42	10 - 11 ft	9/22/2022	Tidal Flat	--	0.001	4	4	9%	18%	16
	Total Xylenes	22	45	9	20%	mg/kg	0.0014	0.0056	4.16	SB-42	10 - 11 ft	9/22/2022	Tidal Flat	--	1.4	1	1	2%	5%	3
	1,2,3-Trichloropropane	21	44	0	0%	--	--	--	--	--	--	--	--	--	0.05	0	0	--	--	--
	1,2-Dichlorobenzene	28	56	7	13%	mg/kg	0.0049	0.0359	0.11	SB-22	10 - 10 ft	7/27/2011	--	--	0.05	3	3	5%	11%	2.2
	Methylene Chloride	17	34	2	6%	mg/kg	0.114	0.217	0.32	SB-37	10 - 11 ft	9/13/2022	Fill	--	2.6	0	0	--	--	0.1
	Tetrachloroethene (PCE)	21	44	12	27%	mg/kg	0.00108	0.00298	0.011	SB-35	11 - 12 ft	9/12/2022	Fill	--	0.0016	11	11	25%	52%	6.9
	Trichloroethene (TCE)	21	44	3	7%	mg/kg	0.00063	0.0007	0.0062	SB-42	10 - 11 ft	9/22/2022	Tidal Flat	--	0.001	1	1	2%	5%	6.2
	Vinyl Chloride	21	44	1	2%	mg/kg	0.001	0.001	0.001	SB-42	10 - 11 ft	9/22/2022	Tidal Flat	--	0.001	0	0	--	--	1
Groundwater	Benzene	11	17	2	12%	ug/L	0.54	0.585	0.63	MW-05	-	3/31/2021	--	Fill	1.6	0	0	--	--	0.4
	Total Xylenes	11	17	1	6%	ug/L	2.72	2.72	2.72	MW-05	-	3/31/2021	--	Fill	110	0	0	--	--	--
	1,2,3-Trichloropropane	11	17	0	0%	--	--	--	--	--	--	--	--	--	20	0	0	--	--	--
	1,2-Dichlorobenzene	11	17	3	18%	ug/L	0.11	0.69	3.34	MW-05	-	3/31/2021	--	Fill	4.5	0	0	--	--	0.7
	Methylene Chloride	11	17	5	29%	ug/L	6	6.2	7.8	MW-06	-	10/26/2022	--	Fill	100	0	0	--	--	0.1
	Tetrachloroethene (PCE)	11	17	9	53%	ug/L	0.1	1	2.99	MW-06	-	3/29/2021	--	Fill	2.9	1	1	6%	9%	1
	Trichloroethene (TCE)	11	17	2	12%	ug/L	0.09	0.1	0.11	MW-04	-	3/31/2021	--	Fill	0.7	0	0	--	--	0.2
	Vinyl Chloride	11	17	2	12%	ug/L	0.23	0.29	0.35	MW-05	-	3/31/2021	--	Fill	0.18	2	1	12%	9%	1.9

Table J.8. Summary Statistics for COPCs by Area and Media - VOCs

South Park Marina Site, Seattle, Washington

Matrix	Analyte	Number of Locations	Number of Samples	Number of Samples with Detected Conc.	Frequency of Detection	Units	Min. Detected Conc.	Median Detected Conc.	Max. Detected Conc.	Location of Max. Detection	Depth bgs of Max. Detection	Date of Max. Detection	Geologic Unit of Max. Detection (soil)	Hydrostratigraphic Unit of Max. Detection (groundwater)	Proposed RI CUL	Number of Detected Exceedances by Sample	Number of Detected Exceedances by Location	Frequency of Exceedance by Sample	Frequency of Exceedance by Location	Max. Exceedance Factor
Central Area																				
Soil Vadose	Benzene	20	32	7	22%	mg/kg	0.00035	0.00062	0.00067	MW-10	0 - 1 ft	3/8/2021	Fill	--	0.0088	0	0	--	--	0.1
	Total Xylenes	20	32	1	3%	mg/kg	0.00105	0.00105	0.00105	SB-34	0 - 1 ft	3/23/2021	Fill	--	1.4	0	0	--	--	--
	1,2,3-Trichloropropane	20	32	1	3%	mg/kg	0.15	0.15	0.15	MW-17	0 - 1 ft	9/14/2022	Fill	--	0.05	1	1	3%	5%	3
	1,2-Dichlorobenzene	21	33	0	0%	--	--	--	--	--	--	--	--	--	0.05	0	0	--	--	--
	Methylene Chloride	19	30	3	10%	mg/kg	0.00962	0.0153	0.0264	SB-29	3 - 5 ft	3/1/2021	Fill	--	0.43	0	0	--	--	0.1
	Tetrachloroethene (PCE)	20	32	10	31%	mg/kg	0.00049	0.00179	0.0163	MW-09	5 - 6 ft	3/9/2021	Fill	--	0.029	0	0	--	--	0.6
	Trichloroethene (TCE)	20	32	3	9%	mg/kg	0.00125	0.00135	0.00209	MW-09	5 - 6 ft	3/9/2021	Fill	--	0.0044	0	0	--	--	0.5
	Vinyl Chloride	20	32	0	0%	--	--	--	--	--	--	--	--	--	0.0011	0	0	--	--	--
Soil Saturated	Benzene	13	19	3	16%	mg/kg	0.00048	0.0006	0.00075	MW-11	6 - 9 ft	3/8/2021	Fill	--	0.001	0	0	--	--	0.8
	Total Xylenes	13	19	0	0%	--	--	--	--	--	--	--	--	--	1.4	0	0	--	--	--
	1,2,3-Trichloropropane	13	19	0	0%	--	--	--	--	--	--	--	--	--	0.05	0	0	--	--	--
	1,2-Dichlorobenzene	17	23	0	0%	--	--	--	--	--	--	--	--	--	0.05	0	0	--	--	--
	Methylene Chloride	11	16	0	0%	--	--	--	--	--	--	--	--	--	2.6	0	0	--	--	--
	Tetrachloroethene (PCE)	13	19	6	32%	mg/kg	0.0006	0.034	0.31	MW-09D	24 - 25 ft	9/15/2022	Alluvial	--	0.0016	5	1	26%	8%	194
	Trichloroethene (TCE)	13	19	5	26%	mg/kg	0.0016	0.0044	0.026	MW-09D	24 - 25 ft	9/15/2022	Alluvial	--	0.001	5	1	26%	8%	26
	Vinyl Chloride	13	19	0	0%	--	--	--	--	--	--	--	--	--	0.001	0	0	--	--	--
Groundwater	Benzene	15	30	0	0%	--	--	--	--	--	--	--	--	--	1.6	0	0	--	--	--
	Total Xylenes	15	30	0	0%	--	--	--	--	--	--	--	--	--	110	0	0	--	--	--
	1,2,3-Trichloropropane	15	30	0	0%	--	--	--	--	--	--	--	--	--	20	0	0	--	--	--
	1,2-Dichlorobenzene	15	30	0	0%	--	--	--	--	--	--	--	--	--	4.5	0	0	--	--	--
	Methylene Chloride	15	30	4	13%	ug/L	5.8	7.4	8.8	MW-15	-	10/24/2022	--	Fill	100	0	0	--	--	0.1
	Tetrachloroethene (PCE)	15	30	11	37%	ug/L	0.09	21	420	MW-09D	-	10/24/2022	--	Alluvial	2.9	7	3	23%	20%	145
	Trichloroethene (TCE)	15	30	7	23%	ug/L	2.6	11	120	MW-09D	-	10/24/2022	--	Alluvial	0.7	7	3	23%	20%	171
	Vinyl Chloride	15	30	3	10%	ug/L	0.048	0.48	0.95	MW-19D	-	3/23/2023	--	Alluvial	0.18	2	1	7%	7%	5.3
Northwest Area																				
Soil Vadose	Benzene	6	10	1	10%	mg/kg	0.00037	0.00037	0.00037	SB-30	3 - 5 ft	3/1/2021	Fill	--	0.0088	0	0	--	--	--
	Total Xylenes	6	10	0	0%	--	--	--	--	--	--	--	--	--	1.4	0	0	--	--	--
	1,2,3-Trichloropropane	6	10	0	0%	--	--	--	--	--	--	--	--	--	0.05	0	0	--	--	--
	1,2-Dichlorobenzene	6	10	0	0%	--	--	--	--	--	--	--	--	--	0.05	0	0	--	--	--
	Methylene Chloride	6	10	4	40%	mg/kg	0.00682	0.0739	0.23	MW-21	5 - 6 ft	9/14/2022	Fill	--	0.43	0	0	--	--	0.5
	Tetrachloroethene (PCE)	6	10	10	100%	mg/kg	0.0181	0.128	1.9	MW-20	0.5 - 1.5 ft	9/14/2022	Fill	--	0.029	9	6	90%	100%	66
	Trichloroethene (TCE)	6	10	5	50%	mg/kg	0.00069	0.00273	0.00471	MW-13	0 - 1 ft	3/1/2021	Fill	--	0.0044	1	1	10%	17%	1.1
	Vinyl Chloride	6	10	0	0%	--	--	--	--	--	--	--	--	--	0.0011	0	0	--	--	--
Soil Saturated	Benzene	7	19	6	32%	mg/kg	0.00064	0.00207	0.01	MW-13D	35.5 - 36.5 ft	9/23/2022	Till	--	0.001	4	2	21%	29%	10
	Total Xylenes	7	19	1	5%	mg/kg	0.003	0.003	0.003	MW-13D	32 - 33 ft	9/23/2022	Alluvial	--	1.4	0	0	--	--	--
	1,2,3-Trichloropropane	7	19	0	0%	--	--	--	--	--	--	--	--	--	0.05	0	0	--	--	--
	1,2-Dichlorobenzene	7	19	0	0%	--	--	--	--	--	--	--	--	--	0.05	0	0	--	--	--
	Methylene Chloride	7	19	5	26%	mg/kg	0.00659	0.0277	10.7	SB-31	13 - 14.5 ft	3/1/2021	Tidal Flat	--	2.6	1	1	5%	14%	4.1
	Tetrachloroethene (PCE)	7	19	13	68%	mg/kg	0.0071	0.62	18.7	SB-31	13 - 14.5 ft	3/1/2021	Tidal Flat	--	0.0016	13	6	68%	86%	11,688
	Trichloroethene (TCE)	7	19	10	53%	mg/kg	0.0011	0.0113	0.672	SB-31	19 - 20 ft	3/1/2021	Alluvial	--	0.001	10	7	53%	100%	672
	Vinyl Chloride	7	19	4	21%	mg/kg	0.0012	0.0015	0.0029	MW-22	13 - 13.75 ft	9/14/2022	Tidal Flat	--	0.001	4	3	21%	43%	2.9
Groundwater	Benzene	4	8	3	38%	ug/L	0.07	4.2	9.1	MW-13D	-	10/26/2022	--	Alluvial	1.6	2	1	25%	25%	5.7
	Total Xylenes	4	8	0	0%	--	--	--	--	--	--	--	--	--	110	0	0	--	--	--
	1,2,3-Trichloropropane	4	8	0	0%	--	--	--	--	--	--	--	--	--	20	0	0	--	--	--
	1,2-Dichlorobenzene	4	8	1	13%	ug/L	0.21	0.21	0.21	MW-13	-	3/31/2021	--	Fill	4.5	0	0	--	--	--
	Methylene Chloride	4	8	3	38%	ug/L	6.1	7.9	8.8	MW-13	-	10/26/2022	--	Fill	100	0	0	--	--	0.1
	Tetrachloroethene (PCE)	4	8	8	100%	ug/L	18	2050	4640	MW-13	-	3/31/2021	--	Fill	2.9	8	4	100%	100%	1,600
	Trichloroethene (TCE)	4	8	8	100%	ug/L	1.2	31	280	MW-13	-	10/26/2022	--	Fill	0.7	8	4	100%	100%	400
	Vinyl Chloride	4	8	5	63%	ug/L	0.023	1.2	12	MW-13D	-	3/24/2023	--	Alluvial	0.18	4	2	50%	50%	67

Notes:

bgs - below ground surface
mg/kg - milligrams per kilogram
-- - not detected or no detections exceed Proposed RI CUL
Blank - Not applicable for the media
Vadose soil is soil between 0 and 6 ft bgs.
Saturated soil is soil at depths equal to or greater than 6 ft bgs.

ft - feet
ug/L - micrograms per liter

Proposed RI CUL - Proposed Remedial Investigation Cleanup Level; refer to Section 6.2.
Max. Exceedanace Factor - Maximum detected concentration divided by the Proposed RI CUL

APPENDIX K

Vapor Intrusion Assessment Memorandum (Aspect, 2023c)

MEMORANDUM

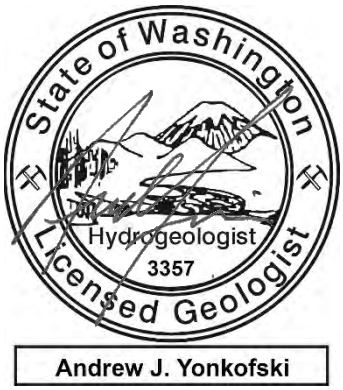
Project No. 190293

June 27, 2023

To: Priscilla Tomlinson and Julia Schwarz, Washington State Department of Ecology

cc: Allison Crowley, Seattle City Light
Anne Fitzpatrick, Geosyntec
Roy Kuroiwa, Port of Seattle
Evan Malczyk, Floyd|Snider
Phillip Spadaro, Erin O'Connell, and Jill DeMars; TIG Environmental

From:



6/27/2023

Andrew Yonkofski, LHG
Senior Hydrogeologist
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Jeremy Porter, PE
Principal Engineer
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Re: **South Park Marina – Tire Factory Vapor Intrusion Assessment Results**

Introduction

In accordance with Agreed Order No. DE 16185 (the Agreed Order; AO) between the Washington State Department of Ecology (Ecology) and the Potentially Liable Parties (PLP) Group, which consists of South Park Marina Limited Partnership (SPM), the Port of Seattle (Port), and the City of Seattle (City), a Remedial Investigation (RI) is being conducted for the South Park Marina Site (Site) located at 8604 Dallas Avenue South in Seattle, Washington (the Property).

As part of the RI, an assessment is being conducted for the Tire Factory building (located in the northwest corner of the Property) to assess the potential for vapor intrusion (VI) of tetrachloroethylene (PCE) from a presumed off-Property upgradient source. This memorandum updates the *Proposed Indoor Air Sampling Plan at the Tire Factory Memorandum*, dated February 16, 2023 (Attachment A). That memorandum summarized VI assessment activities conducted through January 2023, including comparing pre-validated shallow groundwater and subslab soil gas data to screening levels published in Ecology's Cleanup Levels and Risk Calculation (CLARC) spreadsheet (January 2023).

Based on those data, additional VI assessment was warranted for the Tire Factory building, and that assessment, referred herein to as Phase 3 of the RI, included additional groundwater and subslab soil gas sampling as well as indoor air sampling. Based on discussions with Ecology and analytical data collected during Phase 2 and Phase 3 of the RI, additional investigation into potential background sources of PCE at the Tire Factory building on the Property was conducted on May 5, 2023.

Aspect Consulting, LLC (Aspect) prepared this memorandum on behalf of the PLP Group to document the results of the Phase 3 sampling event, the background source investigation, and the conclusions of the VI assessment.

Vapor Intrusion Assessment Activities and Results

The VI assessment was a sequential process that included:

- **Phase 1 of the RI – March 2021**: Groundwater samples were collected throughout the Site and screened against the Washington State Model Toxics Control Act (MTCA) Method B groundwater screening levels for VI. The concentrations of PCE, trichlorethylene, and vinyl chloride in groundwater at MW-13, upgradient of the Tire Factory, exceeded the MTCA Method B groundwater screening levels for VI. VI assessment was identified as a data gap in the *Remedial Investigation Work Plan Addendum*[1] (RIWP Addendum), and VI assessment activities including additional monitoring well installations, groundwater analyses, and soil gas sampling were recommended for Phase 2 of the RI.

- **Phase 2 of the RI – October to November 2022:** Additional groundwater samples were collected from shallow groundwater near the Tire Factory from newly installed monitoring wells MW-20 and MW-22 and from existing monitoring well MW-13. Additionally, two soil gas samples (SG-01 and SG-02) were collected from beneath the slab in the lobby of the Tire Factory to assess soil gas quality and the potential for VI. Concentrations of PCE in groundwater at MW-13 and MW-20 exceeded the MTCA Method B groundwater screening levels for VI. Likewise, concentrations of PCE in soil gas at SG-01 and SG-02 exceeded the MTCA Method B subslab soil gas screening levels for VI. After evaluating the subslab soil gas analytical results, Aspect conducted a site visit to document building construction characteristics, evaluate potential preferential flow pathways, and inventory chemicals in use and being stored at the Tire Factory in anticipation of future indoor air sampling.

- **Phase 3 of the RI – March to May 2023:** Four soil gas and four indoor air samples were collected from beneath and within the Tire Factory. The sampling activities and analytical results are described below. Based on the analytical results from Phase 3 soil gas and indoor air sampling, additional Phase 3 assessment activities for potential background indoor air sources were recommended. Additional Phase 3 assessment activities included verifying previous chemical inventories, screening of indoor air with a parts per billion (ppb) sensitivity photoionization detector (PPB PID), and sampling of indoor air at 20 locations

[1] Aspect Consulting, LLC (Aspect), 2022, Remedial Investigation Work Plan Addendum, South Park Marina, Seattle, Washington, dated August 23, 2022.

using a Gastec colorimetric sampler. These additional assessment activities were completed in May 2023 and are described below.

The following subsections summarize the Phase 3 VI assessment sampling activities, analytical results, and further VI assessment activities. These data were collected in accordance with the methods described in the *Proposed Indoor Air Sampling Plan at the Tire Factory Memorandum*[2] (Aspect, 2023a). A summary of sampling activities and preliminary results was provided to Ecology via email on April 4, 2023[3]. This memorandum provides the summary of additional VI assessment activities conducted in May 2023 as part of Phase 3 of the RI.

Phase 3 Vapor Intrusion Assessment Activities

The following activities were completed as part of Phase 3 of the RI for the purposes of VI assessment at the Tire Factory:

- One indoor air sample (IA-01) was collected in the lobby, adjacent to the subslab soil gas locations SG-01 and SG-02, where PCE was detected in soil gas at concentrations exceeding the MTCA Method B commercial screening level during Phase 2 of the RI in October 2022.

- One indoor air sample (IA-02) was collected in the western restroom, to assess any potential preferential pathway for vapor migration from recent sewer repairs.

- One indoor air sample (IA-03) was collected in the garage, which is on the western side of the Tire Factory building and closest to the presumed off-Property source and highest concentrations of PCE in groundwater (at MW-13 and MW-20).

- One indoor air sample (IA-04) was collected in the eastern portion of the warehouse, which is near where a parts wash was formerly located and farthest from the presumed off-Property source and lowest concentrations of PCE in groundwater (at MW-12).

- Two ambient air samples (AMB-01 and AMB-02) were collected outside of the east and west sides of the building to assess potential contributions outside of the Tire Factory building.

- Four subslab soil gas samples were collected immediately following air sampling at locations SG-01 and SG-02 (Phase 2 locations) and SG-03 and SG-04, which were co-located with the indoor air samples in the restroom and warehouse to allow direct comparison of results.

- Groundwater samples were collected from MW-13 and MW-20 to assess any seasonal variation in PCE concentrations in groundwater. Sampling was also planned for MW-21, but it remained dry throughout Phase 3 groundwater sampling in March 2023.

[2] Aspect Consulting, LLC (Aspect), 2023a, Proposed Indoor Air Sampling Plan at the Tire Factory Building Memorandum, South Park Marina, dated February 16, 2023.
[3] Aspect Consulting, LLC (Aspect), 2023b, Email correspondence between Jeremy Porter and Julia Schwarz of Ecology, April 4, 2023.

The above activities were completed between March 21 and March 24, 2023. The sampling was conducted in accordance with the Sampling and Analysis Plan / Quality Assurance Project Plan (SAP/QAPP) included as Appendix C of the RIWP Addendum, with one modification – the SAP/QAPP identified collection of samples over a 24-hour period; however, given the commercial use of the Tire Factory building, the samples were collected over an 8-hour period to assess the potential for vapor intrusion to affect indoor air quality under the conditions that workers are commonly using the building.

According to Tire Factory staff, they generally operate with the doors to the garage space open; however, we cannot verify that this is always the case when employees are on site. In the service area of the warehouse (shown on Figures 1-4), the overhead door is frequently opened as vehicles are moved into and out of the service area. Observations during VI assessment visits indicated that the overhead door in the service area of the warehouse is generally closed while employees are servicing vehicles. As part of the VI assessment, the indoor air samples were collected as close as possible to normal operating conditions to evaluate the potential exposure to workers during routine business operations (e.g., with the heating system operating) while providing a conservative assessment of potential worker exposure if workers were present with the garage doors closed.

Based on discussions with Ecology, to meet these requirements, the indoor air samples were collected for a period of 8 hours starting approximately two hours before the Tire Factory opened the garage and service area doors for the day. This resulted in indoor air samples that represented air quality of approximately 25 percent during a closed-door condition after the roll up doors had been closed for an extended period of time and 75 percent during normal business operations with (a) roll-up doors in the garage open; and (b) rollup doors in the warehouse service area generally closed, but with periodic openings throughout the day.

Vapor Intrusion Assessment Analytical Results

Summary figures are included in this memorandum which show Phase 2 and Phase 3 analytical results for groundwater (Figure 1) and Phase 2 and Phase 3 analytical results for soil gas and Phase 3 results for indoor air (Figure 2). The results of soil gas sampling and indoor air sampling were transmitted to Ecology via email on April 4, 2023. The results are summarized below along with the analytical results from groundwater sampling that was conducted concurrently.

Groundwater Analytical Results

PCE concentrations in groundwater during Phase 2 (October 2022) and Phase 3 (March 2023) near the Tire Factory are shown on Figure 1. Volatile organic compound (VOC) results from Phase 2 and Phase 3 groundwater samples collected from monitoring wells (MW-12, MW-13, MW-20, MW-22) near the Tire Factory are shown in Table 1. During both groundwater sampling events, PCE concentrations in groundwater upgradient of the Tire Factory were above the MTCA Method B groundwater screening level for VI for commercial workers[4]. Due to these groundwater

[4] The commercial worker screening levels for VI are based on the MTCA Method B groundwater screening level, subslab soil gas screening level, and indoor air cleanup level, each of which is adjusted to an exposure duration of 45 hours per week for 50 weeks per year for adult workers. A short-term Action Level for TCE in indoor air, which evaluates the toxicity of short-term TCE exposure on women of child-bearing age over a 21-day period, is available. However, the long-term commercial worker screening level for indoor air is lower, and therefore more conservative, and was used to screen concentrations of TCE in indoor air for VI risk assessment.

concentrations, VI assessment was conducted during Phase 2 (two subslab soil gas samples) and Phase 3 (four subslab soil gas and four indoor air samples).

Soil Gas Analytical Results

PCE concentrations in soil gas during Phase 2 (October 2022) and Phase 3 (March 2023) underneath the Tire Factory building are shown on Figure 2. Analytical results for soil gas are included in Table 2.

During the Phase 2 sampling event in October 2022, PCE was detected at the following concentrations at each of the subslab soil gas sampling locations:

- **SG-01, beneath the lobby:** PCE was detected at a concentration of 43,000 micrograms per cubic meter (ug/m^3), which exceeds the screening level (1,500 ug/m^3) for commercial workers.
- **SG-02, beneath the lobby:** PCE was detected at a concentration of 10,000 ug/m^3, which exceeds the screening level for commercial workers.

During the Phase 3 sampling event in March 2023, PCE was detected at the following concentrations at each of the subslab soil gas sampling locations:

- **SG-01, beneath the lobby:** PCE was detected at a concentration of 12,000 ug/m^3, which exceeds the screening level for commercial workers.
- **SG-02, beneath the lobby:** PCE was detected at a concentration of 1,900 ug/m^3, which exceeds the screening level for commercial workers.
- **SG-03, beneath the western restroom:** PCE was detected at a concentration of 1,000 ug/m^3, which is below the subslab soil gas screening level for commercial workers.
- **SG-04, beneath the service area of the warehouse:** PCE was detected at a concentration of 140 ug/m^3, which is below the subslab soil gas screening level for commercial workers.

During the Phase 2 and Phase 3 sampling events, PCE was the only compound detected above the MTCA Method B subslab soil gas screening levels for commercial workers. During Phase 3, the PCE concentrations in subslab soil gas beneath the lobby (SG-01 and SG-02) were approximately 20 to 30 percent of the concentrations detected during the Phase 2 sampling event. PCE concentrations beneath the bathroom and the service area of the warehouse were below the screening level, with the lowest concentration in subslab soil gas located beneath the warehouse service area. The soil gas data is consistent with the groundwater data, with the highest PCE concentrations detected closest to the off-Site, upgradient former dry cleaner and the lowest PCE concentrations at the location farthest away from the former dry cleaner.

Indoor Air Analytical Results

Indoor air was sampled as part of Phase 3 of the RI on March 21, 2023. Phase 3 PCE concentrations in indoor air samples collected from within the Tire Factory building and from ambient air outside of the Tire Factory building are shown on Figure 2 and are summarized below. Analytical results from the Phase 3 indoor air samples are summarized in Table 3.

- **AMB-1 and AMB-2, ambient air locations outside of the Tire Factory:** PCE was not detected in either of the ambient air locations. The prevailing wind direction shifted from the south to the north during the sampling event, and both of these samples are representative of ambient air conditions outside the building.

- **IA-01, inside the lobby adjacent to SG-01 and SG-02:** PCE was detected at a concentration of 260 ug/m^3, which exceeds the MTCA Method B screening level (44.9 ug/m^3) for indoor air for commercial workers.

- **IA-02, inside the western bathroom adjacent to SG-03:** PCE was detected at a concentration of 470 ug/m^3, which exceeds the MTCA Method B screening level for indoor air for commercial workers.

- **IA-03, inside the garage with no nearby soil gas sample:** PCE was detected at a concentration of 36 ug/m^3, which is below the MTCA Method B screening level for indoor air for commercial workers.

- **IA-04, inside the service area of the warehouse adjacent to SG-04:** PCE was detected at a concentration of 4,700 ug/m^3, which exceeds the MTCA Method B screening level for indoor air for commercial workers.

PCE was the only chlorinated VOC detected in indoor air samples above the MTCA Method B screening level for indoor air for commercial workers.

Phase 3 Sampling Conclusions

The results of Phase 3 soil gas and indoor air sampling were transmitted to Ecology on April 4, 2023 and discussed in the April 13, 2023 PLP-Ecology meeting. Based on the high concentration of PCE in the warehouse indoor air sample and the relatively low concentration in the adjacent subslab soil gas sample, an on-Site source within the building that influenced the results appeared likely. The MTCA regulations only apply to vapors intruding into the building from the subsurface as the result of a release of a hazardous substance. If PCE-containing products are used as part of business operations, Federal Occupational Safety and Health Administration or Washington Industrial Safety and Health Act permissible exposure limits (PELs) rather than MTCA would potentially apply.

Additional VI Assessment Activities

To assess the potential for background sources of PCE inside the building, the following additional VI assessment work was recommended by the PLP group in an email to Ecology on April 17, 2023[5] and agreed to by Ecology in an email dated April 18, 2023[6]:

[5] Aspect Consulting, LLC (Aspect), 2023c, Email correspondence between Jeremy Porter and Julia Schwarz of Ecology, April 17, 2023.

[6] Washington State Department of Ecology (Ecology), 2023, Email correspondence between Julia Schwarz and Jeremy Porter of Aspect, April 18, 2023.

- Interview the Tire Factory owner and workers to determine if there were any new chemical products being stored and/or in use since the November 2022 chemical inventory was completed, and if any products were in use during the Phase 3 indoor air sampling event.

- Inspect the warehouse slab for significant cracks, slab penetrations, sumps, or other potential preferential vapor migration pathways, and collecting photo documentation of slab conditions.

- Conduct a chemical inventory with a particular focus on products potentially containing PCE that are common in the automotive/tire service industry (e.g., brake cleaners and tire cleaners).

- Perform a building-wide survey of volatiles in air using a PPB PID.

- Measure PCE concentrations in air at up to 20 locations throughout the warehouse, lobby, and garage using Gastec No. 133LL detector tubes for PCE (measurement range 0.1 to 9 parts-per-million [ppm]).

These activities were completed in April and May 2023 and are summarized below.

April 2023 Chemical Inventory Conducted by TIG Environmental

During the week of April 4th, 2023, TIG Environmental (TIG), on behalf of SPM, conducted an independent chemical inventory at the Tire Factory and interviewed the Tire Factory owner and employees. TIG reported that Tire Factory staff indicated that they had not been using any new chemical products since the November 2022 chemical inventory; however, TIG identified one can of PCE-containing aerosol brake cleaner (Mac's Brake Parts Cleaner as shown in the Photograph 7 of the Photograph Log included as Attachment B). The can appeared empty or nearly empty and was located in close proximity to where IA-04 had been collected. The can was disposed of by Tire Factory staff prior to the May 2023 VI assessment work.

May 2023 VI Assessment Work

The following additional VI assessment work was conducted by Aspect on May 5, 2023.

Chemical Inventory

The results of the chemical inventory are summarized in Table 4. A refillable Sure Shot canister hand-labeled as "Brake Cleaner" was discovered in the area of sample IA-04 (Attachment 1). A sample of the air in the canister was collected from the nozzle using a Gastec detection tube, which recorded a PCE concentration of 0.75 ppm (5,250 ug/m^3). The owner of the Tire Factory (Owen) reported that the canister had not been used in years. Representative photos of chemical storage, the area around IA-04, the hand-labeled refillable canister of brake cleaner, and other items of note in the sections below are included as Attachment B. Due to the general state of housekeeping within the Tire Factory, it cannot be certain that every chemical containing product within the building was documented.

Building Screening with PPB PID

The building was screened using a Honeywell PpbRAE 3000+ PID (PPB PID), which utilizes a 10.6 electronvolt lamp. The screening was conducted prior to normal operations commencing in the service area of the warehouse (before the garage doors were opened). Screening results from the

PPB PID are shown on Figure 3. Indoor air concentrations measured in the service area, tire storage area, and the lobby ranged from approximately 140-400 ppb, with results consistently around 200 ppb. Some additional observations for specific areas were noted:

- A mostly empty gas jerry can in the northeast corner of the service area had a maximum concentration of 4,611 ppb.
- The main chemical storage cabinet along the east wall of the service area had a maximum concentration of 319 ppb.
- Multiple puddles of liquid on top of the slab (red and green, possibly antifreeze and automatic transmission fluid, based on appearance) in the southwest portion of the service area did not produce elevated readings when screened directly above the puddles with the PPB PID.
- An open bucket of unknown liquid in the southwest portion of the service area had a maximum concentration of 1,443 ppb.
- The engine bay of a red truck in the western-central portion of the service area had a maximum concentration of 136,600 ppb.
- The used oil and antifreeze storage containers at the partition between the service and tire storage areas of the warehouse had a maximum concentration of 445 ppb.
- No readings above 230 ppb were noted throughout the tire storage area of the warehouse, including on the upper floor.
- Elevated PPB PID readings were noted in the office attached to the lobby, reaching a maximum of 1,656 ppb. Further investigation indicated these were likely the result of an open container of kerosene.
- PID readings in the garage (which had the doors open and was in use by employees) ranged from 0 to 11 ppb. The chemical storage cabinet along the west wall contained elevated PID readings up to 341 ppb.

Figure 3 shows the results of PID screening throughout the building and in the areas noted above. Additional Gastec air samples were collected in select areas based on the PID screening results.

Gastec Air Results

Indoor air sampling was conducted using Gastec No. 133LL PCE detection tubes, with a sensitivity range from 0.1 to 9 ppm. Twenty measurements were taken throughout the Tire Factory building, including in those areas with notably higher PID readings described above. During collection of the Gastec measurements, the service area of the warehouse was under normal operating conditions, including the use of aerosols by employees. The use of aerosols by employees spiked PID readings up to 40,000 ppb and resulted in sustained readings of approximately 5,000 to 10,000 ppb throughout the service area and the tire storage area of the warehouse while collecting Gastec

samples. The results from Gastec air samples are shown on Figure 4. PCE was only detected in the following two samples:

- PCE was detected at an approximate concentration of 0.75 ppm (5,250 ug/m^3) in the nozzle of the hand-labeled, refillable Sure Shot canister described above.

- PCE was detected in free air (breathing zone) near the Sure Shot canister and the location of IA-04 at 0.2 ppm (1,400 ug/m^3).

PCE was not detected in any other Gastec air samples (<0.1 ppm; <700 ug/m^3). Figure 4 shows the results of Gastec samples collected throughout the building.

Interviews

Interviews were conducted with Owen (the owner) and Gary (an employee who commonly works in the service area of the warehouse). Owen indicated that there are no new chlorinated solvent-containing products in use since the inventory that was conducted in November 2022. It was noted during the chemical inventory that the current inventory was primarily comprised of O'Reilly products (as compared to AutoZone products during November 2022). Owen indicated that generally they use products supplied by AutoZone, O'Reilly, and occasionally NAPA, depending on availability, price, timing of deliveries, etc. and that either Owen or Gary handles ordering of commonly used consumable supplies. Owen indicated he always orders non-chlorinated solvents, especially for cans of brake cleaner. Gary indicated that he does not specify the type of solvent when ordering consumable chemicals such as brake cleaners.

Owen and Gary indicated that they were not aware of any slab penetrations in the service or tire storage areas of the warehouse. Aspect noted that the ramp into the service area of the warehouse appeared to have been installed after the original slab for the building was constructed as evidenced by the saw cuts around the ramp (Photograph 13, Attachment B). Owen indicated that the only known large crack in the slab is located along the east wall of the service area of the warehouse, running roughly north-south. Owen reported the crack has been there for greater than a decade. Aspect noted the crack did not appear to be open to the soil underneath the slab, as there was much compacted, fine debris filling the crack (Photographs 11 and 12, Attachment B); it was not confirmed whether the crack fully penetrates the slab. No other significant cracks were noted by Aspect throughout the remainder of the service, tire storage, and lobby areas of the warehouse.

When asked about known spills in the service area of the warehouse, Owen indicated that they are frequent and common (as evidenced by the puddles of liquid observed during this site visit; Photograph 2, Attachment B). However, he did not know of any historical spills of chlorinated solvents at the Tire Factory.

Vapor Intrusion Assessment Summary and Recommendations

At this time, no further VI assessment work is recommended for the Tire Factory due to the presence of PCE-containing products. The current commercial use of the building precludes the ability to determine if PCE in indoor air is the result of VI. This recommendation is based on multiple lines of evidence:

- **Known Indoor, Background Sources:** Since indoor air sampling was conducted, two known sources of PCE have been documented in the area of sample IA-04 (warehouse service area): the can of Mac's Brake Cleaner documented by TIG and the Sure Shot canister documented during the VI assessment work in May 2023. These canisters are background, non-vapor intrusion sources of PCE in indoor air, as indicated by the Gastec air samples collected by Aspect.

- **Chemical Use As Part of Business Operations:** The lack of controls around the ordering of products and the results of the chemical inventory indicate that chlorinated solvent-containing products have been and may again be used and stored at the facility, including during the Phase 3 indoor air sampling event.

- **Preferential Flowpaths:** No potential preferential flowpaths through the building slab were identified in areas where soil gas concentrations exceed commercial screening levels. The saw cuts for the ramp into the service area of the warehouse and the crack along the east wall of the service area of the warehouse could represent a potential preferential flowpath for vapor intrusion. However, it does not appear that either of these potential pathways are contributing to VI, based on the following:

    - The soil gas results from SG-04 were more than an order of magnitude below the indoor air concentration at the collocated IA-04 sample location, and the soil gas concentration at SG-04 was well below the MTCA Method B subslab soil gas screening level adjusted for commercial workers.

    - The crack in the slab and saw cuts for the ramp are even farther east away from the presumed source of PCE in groundwater contributing to soil gas. The crack is closest to MW-12 to the east, where PCE was not detected in groundwater.

    - No elevated PID readings or PCE concentrations in Gastec air results were noted in the vicinity of this crack and the saw cuts during the May 2023 VI assessment work.

The chemical use at the facility, combined with the screening, building observations, and the lack of exceedances in soil gas beneath the service area of the warehouse, indicate that the PCE concentration at IA-04 was likely the result of a background indoor air source based on the operations within the building and not likely due to vapor intrusion from beneath the slab. At this time, potential background indoor air sources can not be eliminated based on the use of the building, and therefore per Ecology's guidance[7], further VI assessment will not be conducted based on the presence of PCE-containing chemicals at the Tire Factory. Should the use of the property change, further work may be appropriate to assess whether VI could result in exceedances of indoor air cleanup levels for PCE.

Limitations

Work for this project was performed for Seattle City Light, The Port of Seattle, and the South Park Marina Limited Partnership (PLP Client Group), and this memorandum was prepared in accordance

[7] Washington State Department of Ecology (Ecology), 2022, Guidance for Evaluating Vapor Intrusion in Washington State, Investigation and Remedial Action, Publication No. 09-09-047, dated Final March 2022.

with generally accepted professional practices for the nature and conditions of work completed in the same or similar localities, at the time the work was performed. This memorandum does not represent a legal opinion. No other warranty, expressed or implied, is made.

All reports prepared by Aspect Consulting for this project apply only to the services described in the Contract Agreement(s) with Seattle City Light, contract administrator on behalf of the PLP Client Group. Any use or reuse by any party other than the Client is at the sole risk of that party, and without liability to Aspect Consulting. Aspect Consulting's original files/reports shall govern in the event of any dispute regarding the content of electronic documents furnished to others.

Attachments:

Table 1 – Groundwater Analytical Results – VOCs – Phases 2 and 3
Table 2 – Soil Gas Analytical Results – Phases 2 and 3
Table 3 – Ambient and Indoor Air Analytical Results – Phase 3
Table 4 – May 5, 2023 Tire Factory Chemical Inventory
Figure 1 – PCE Concentrations in Shallow Groundwater – Phase 2 and Phase 3
Figure 2 – PCE Concentrations in Soil Gas and Indoor Air – Phase 2 and Phase 3
Figure 3 – Parts per Billion Photoionization Detector Screening Results
Figure 4 – Gastec Sample Results – PCE in Air
Attachment A – Proposed Indoor Air Sampling Plan at the Tire Factory Building
Attachment B – Select Photographs

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TABLES

Table 1. Groundwater Analytical Results - VOCs - Phases 2 and 3

Project No. 190293, South Park Marina RI, Seattle, Washington

		Location	**MW-12**	**MW-13**		**MW-20**		**MW-22**
		Date	10/27/2022	10/26/2022	03/24/2023	10/31/2022	03/24/2023	10/24/2022
		Sample	MW-12-221027	MW-13-221026	MW-13-230324	MW-20-221031	MW-20-230324	MW-22-221024
Analyte	Unit	MTCA Method B Groundwater Screening Level for Commercial Worker Exposure[(1)]						
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	ug/L	33	< 1 UJ	< 1 U	< 100 U	< 1 U	< 10 U	< 1 U
1,1,1-Trichloroethane	ug/L	46000	< 1 UJ	< 1 U	< 100 U	< 1 U	< 10 U	< 1 U
1,1,2,2-Tetrachloroethane	ug/L	27	< 0.2 UJ	< 0.2 U	< 20 U	< 0.2 U	< 2 U	< 0.2 U
1,1,2-Trichloroethane	ug/L	41	< 0.5 UJ	< 0.5 U	< 50 U	< 0.5 U	< 5 U	< 0.5 U
1,1-Dichloroethane	ug/L	52	< 1 UJ	< 1 U	< 100 U	< 1 U	< 10 U	< 1 U
1,1-Dichloroethene	ug/L	1100	< 1 UJ	**8.8**	< 100 U	< 1 U	< 10 U	< 1 U
1,1-Dichloropropene	ug/L		< 1 UJ	< 1 U	< 100 U	< 1 U	< 10 U	< 1 U
1,2,3-Trichlorobenzene	ug/L		< 1 UJ	< 1 U	< 100 U	< 1 U	< 10 U	< 1 U
1,2,3-Trichloropropane	ug/L	170	< 1 UJ	< 1 U	< 100 U	< 1 U	< 10 U	< 1 U
1,2,4-Trichlorobenzene	ug/L	330	< 0.1 U	< 0.1 U	< 100 U	< 0.1 U	< 10 U	< 0.1 U
1,2,4-Trimethylbenzene	ug/L	2000	< 1 UJ	< 1 U	< 100 U	< 1 U	< 10 U	< 1 U
1,2-Dibromo-3-chloropropane	ug/L	0.75	< 10 UJ	< 10 U	< 1000 U	< 10 U	< 100 U	< 10 U
1,2-Dibromoethane (EDB)	ug/L	1.4	< 1 UJ	< 1 U	< 100 U	< 1 U	< 10 U	< 1 U
1,2-Dichlorobenzene	ug/L	21000	< 0.1 U	< 0.1 U	< 100 U	< 0.1 U	< 10 U	< 0.1 U
1,2-Dichloroethane (EDC)	ug/L	16	< 0.2 UJ	< 0.2 U	< 20 U	< 0.2 U	< 2 U	< 0.2 U
1,2-Dichloropropane	ug/L	48	< 1 UJ	< 1 U	< 100 U	< 1 U	< 10 U	< 1 U
1,3,5-Trimethylbenzene	ug/L	1400	< 1 UJ	< 1 U	< 100 U	< 1 U	< 10 U	< 1 U
1,3-Dichlorobenzene	ug/L		< 0.1 U	< 0.1 U	< 100 U	< 0.1 U	< 10 U	< 0.1 U
1,3-Dichloropropane	ug/L		< 1 UJ	< 1 U	< 100 U	< 1 U	< 10 U	< 1 U
1,4-Dichlorobenzene	ug/L	23	< 0.1 U	< 0.1 U	< 100 U	< 0.1 U	< 10 U	< 0.1 U
2,2-Dichloropropane	ug/L		< 1 UJ	< 1 U	< 100 U	< 1 U	< 10 U	< 1 U
2-Butanone	ug/L	15000000	< 20 UJ	< 20 U	< 2000 U	< 20 U	< 200 U	< 20 U
2-Chlorotoluene	ug/L		< 1 UJ	< 1 U	< 100 U	< 1 U	< 10 U	< 1 U
2-Hexanone	ug/L	62000	< 10 UJ	< 10 U	< 1000 U	< 10 U	< 100 U	< 10 U
4-Chlorotoluene	ug/L		< 1 UJ	< 1 U	< 100 U	< 1 U	< 10 U	< 1 U
4-Methyl-2-pentanone	ug/L	4000000	< 10 UJ	< 10 U	< 1000 U	< 10 U	< 100 U	< 10 U
Acetone	ug/L		< 50 UJ	< 50 U	< 5000 U	< 50 U	< 500 U	< 50 U
Benzene	ug/L	11	< 0.35 UJ	< 0.35 U	< 35 U	< 0.35 U	< 3.5 U	< 0.35 U
Bromobenzene	ug/L	5400	< 1 UJ	< 1 U	< 100 U	< 1 U	< 10 U	< 1 U
Bromodichloromethane	ug/L	6.4	< 0.5 UJ	< 0.5 U	< 50 U	< 0.5 U	< 5 U	< 0.5 U
Bromoform	ug/L	1000	< 5 UJ	< 5 U	< 500 U	< 5 U	< 50 U	< 5 U
Bromomethane	ug/L	93	< 5 UJ	< 5 U	< 500 U	< 5 U	< 50 U	< 5 U
Carbon Tetrachloride	ug/L	2.9	< 0.5 UJ	< 0.5 U	< 50 U	< 0.5 U	< 5 U	< 0.5 U
Chlorobenzene	ug/L	2900	< 1 UJ	< 1 U	< 100 U	< 1 U	< 10 U	< 1 U
Chloroethane	ug/L	120000	< 1 UJ	< 1 U	< 100 U	< 1 U	< 10 U	< 1 U
Chloroform	ug/L	5.5	< 1 UJ	< 1 U	< 100 U	< 1 U	< 10 U	< 1 U
Chloromethane	ug/L	1300	< 10 UJ	< 10 U	< 1000 U	< 10 U	< 100 U	< 10 U
cis-1,2-Dichloroethene (cDCE)	ug/L	1600	< 1 UJ	**1400**	**520**	**15**	< 10 U	< 1 U
cis-1,3-Dichloropropene	ug/L		< 0.4 UJ	< 0.4 U	< 40 U	< 0.4 U	< 4 U	< 0.4 U
Dibromochloromethane	ug/L		< 0.5 UJ	< 0.5 U	< 50 U	< 0.5 U	< 5 U	< 0.5 U
Dibromomethane	ug/L	820	< 1 UJ	< 1 U	< 100 U	< 1 U	< 10 U	< 1 U
Dichlorodifluoromethane	ug/L	36	< 1 UJ	< 1 U	< 100 U	< 1 U	< 10 U	< 1 U
Ethylbenzene	ug/L	24000	< 1 UJ	< 1 U	< 100 U	< 1 U	< 10 U	< 1 U
Isopropylbenzene	ug/L	7800	< 1 UJ	< 1 U	< 100 U	< 1 U	< 10 U	< 1 U
m,p-Xylenes	ug/L		< 2 UJ	< 2 U	< 200 U	< 2 U	< 20 U	< 2 U
Methyl tert-butyl ether (MTBE)	ug/L	4000	< 1 UJ	< 1 U	< 100 U	< 1 U	< 10 U	< 1 U
Methylene Chloride	ug/L	14000	< 5 UJ	**8.8 C**	< 500 U	< 5 U	< 50 U	**6.1 C**
n-Hexane	ug/L	61	< 5 UJ	< 5 U	< 500 U	< 5 U	< 50 U	< 5 U
n-Propylbenzene	ug/L	19000	< 1 UJ	< 1 U	< 100 U	< 1 U	< 10 U	< 1 U
o-Xylene	ug/L		< 1 UJ	< 1 U	< 100 U	< 1 U	< 10 U	< 1 U
p-Isopropyltoluene	ug/L		< 1 UJ	< 1 U	< 100 U	< 1 U	< 10 U	< 1 U
sec-Butylbenzene	ug/L		< 1 UJ	< 1 U	< 100 U	< 1 U	< 10 U	< 1 U
Styrene	ug/L	70000	< 1 UJ	< 1 U	< 100 U	< 1 U	< 10 U	< 1 U
tert-Butylbenzene	ug/L		< 1 UJ	< 1 U	< 100 U	< 1 U	< 10 U	< 1 U
Tetrachloroethene (PCE)	ug/L	120	< 1 UJ	**2900**	**4400**	**3300**	**1200**	**65**
Toluene	ug/L	130000	< 1 UJ	< 1 U	< 100 U	< 1 U	< 10 U	< 1 U
trans-1,2-Dichloroethene	ug/L	650	< 1 UJ	**11**	< 100 U	< 1 U	< 10 U	< 1 U
trans-1,3-Dichloropropene	ug/L		< 0.4 UJ	< 0.4 U	< 40 U	< 0.4 U	< 4 U	< 0.4 U
Trichloroethene (TCE)	ug/L	12	< 0.5 UJ	**280**	**170**	**9.7**	**5.4**	**1.2**
Trichlorofluoromethane	ug/L	1000	< 1 UJ	< 1 U	< 100 U	< 1 U	< 10 U	< 1 U
Vinyl Chloride	ug/L	1.6	< 0.02 UJ	**1.2**	< 2 U	**0.023**	< 0.2 U	< 0.02 U

Notes:

Bold - detected

Blue Shaded - Detected result exceeded screening level

C - Result may be influenced by unconfirmed contamination as part of the analytical process.

U - Analyte not detected at or above reporting limit shown

UJ - Analyte not detected, and the reporting limit is an estimate

ug/L - micrograms per liter

MTCA - Model Toxics Control Act

(1) - The commercial worker screening levels are specific to vapor intrusion and are based on the MTCA Method B groundwater screening level for vapor intrusion, adjusted to an exposure duration of 45 hours/week for 50 weeks/year for adult workers.

Table 2. Soil Gas Analytical Results - Phases 2 and 3

Project No. 190293, South Park Marina Seattle, Washington

Location			SG-01		SG-02		SG-03	SG-04
Date			10/07/2022	03/21/2023	10/07/2022	03/21/2023	03/21/2023	03/21/2023
Sample			SG-01-221007	SG-01-230321	SG-02-221007	SG-02-230321	SG-03-230321	SG-04-230321
Analyte	Unit	MTCA Method B Subslab Soil Gas Screening Level - Commercial Workers[(1)]						
Volatile Organic Compounds								
1,1,1-Trichloroethane	ug/m3	650000	< 22 U	< 8.7 U	< 9.3 U	< 4.4 U	< 4.2 U	< 4.3 U
1,1,2,2-Tetrachloroethane	ug/m3	6.7	< 5.6 U	--	< 2.3 U	--	--	--
1,1,2-Trichloroethane	ug/m3	24	< 2.2 U	< 0.87 U	< 0.93 U	< 0.44 U	< 0.42 U	< 0.43 U
1,1,2-Trichlorotrifluoroethane	ug/m3	650000	< 31 U	--	< 13 U	--	--	--
1,1-Dichloroethane	ug/m3	240	< 17 U	< 6.5 U	< 6.9 U	< 3.2 U	< 3.1 U	< 3.2 U
1,1-Dichloroethene	ug/m3	26000	< 16 U	< 6.3 U	< 6.7 U	< 3.2 U	< 3.1 U	< 3.1 U
1,2,4-Trichlorobenzene	ug/m3	260	< 30 U	--	< 13 U	--	--	--
1,2,4-Trimethylbenzene	ug/m3	7800	< 200 U	--	< 84 U	--	--	--
1,2-Dibromoethane (EDB)	ug/m3	0.65	< 3.2 U	--	< 1.3 U	--	--	--
1,2-Dichlorobenzene	ug/m3	26000	< 25 U	--	< 10 U	--	--	--
1,2-Dichloroethane (EDC)	ug/m3	15	< 1.7 U	< 0.65 U	< 0.69 U	< 0.32 U	< 0.31 U	< 0.32 U
1,2-Dichloropropane	ug/m3	110	< 9.5 U	--	< 3.9 U	--	--	--
1,3,5-Trimethylbenzene	ug/m3	7800	< 200 U	--	< 84 U	--	--	--
1,3-Dichlorobenzene	ug/m3		**40**	--	**46**	--	--	--
1,4-Dichlorobenzene	ug/m3	35	< 9.4 U	--	< 3.9 U	--	--	--
1-Propene	ug/m3		< 49 U	--	< 20 U	--	--	--
2-Butanone	ug/m3	650000	< 240 U	--	< 100 U	--	--	--
2-Chlorotoluene	ug/m3		< 210 U	--	< 88 U	--	--	--
2-Hexanone	ug/m3	3900	< 170 U	--	< 70 U	--	--	--
4-Methyl-2-pentanone	ug/m3	390000	< 170 U	--	< 70 U	--	--	--
Acetone	ug/m3		< 190 U	--	**95**	--	--	--
Acrolein	ug/m3	2.6	< 4.7 U	--	< 1.9 U	--	--	--
Allyl Chloride	ug/m3	65	< 130 U	--	< 53 U	--	--	--
Benzene	ug/m3	50	< 13 U	--	< 5.4 U	--	--	--
Bromodichloromethane	ug/m3	11	< 2.7 U	--	< 1.1 U	--	--	--
Bromoform	ug/m3	350	< 85 U	--	< 35 U	--	--	--
Bromomethane	ug/m3	650	< 160 U	--	< 66 U	--	--	--
Butane	ug/m3		< 190 U	--	< 81 U	--	--	--
Carbon Disulfide	ug/m3	91000	< 260 U	--	< 110 U	--	--	--
Carbon Tetrachloride	ug/m3	65	< 13 U	--	< 5.3 U	--	--	--
Chlorobenzene	ug/m3	6500	< 19 U	--	< 7.8 U	--	--	--
Chloroethane	ug/m3	1300000	< 110 U	< 42 U	< 45 U	< 21 U	< 20 U	< 21 U
Chloroform	ug/m3	17	< 2 U	--	**2**	--	--	--
Chloromethane	ug/m3	12000	< 150 U	--	< 63 U	--	--	--
cis-1,2-Dichloroethene (cDCE)	ug/m3	5200	< 16 U	< 6.3 U	< 6.7 U	< 3.2 U	< 3.1 U	< 3.1 U
cis-1,3-Dichloropropene	ug/m3		< 37 U	--	< 15 U	--	--	--
Cyclohexane	ug/m3	780000	< 280 U	--	< 120 U	--	--	--
Dibromochloromethane	ug/m3		< 3.5 U	--	< 1.4 U	--	--	--
Dichlorodifluoromethane	ug/m3	13000	< 41 U	--	< 17 U	--	--	--
Ethanol	ug/m3		< 310 U	--	< 130 U	--	--	--
Ethylbenzene	ug/m3	130000	< 18 U	--	< 7.4 U	--	--	--
Ethyl acetate	ug/m3	9100	< 300 U	--	< 120 U	--	--	--
Isopropyl Alcohol	ug/m3		**560**	--	**960 J**	--	--	--
Isopropylbenzene	ug/m3	52000	< 400 U	--	< 170 U	--	--	--
m,p-Xylenes	ug/m3		< 36 U	--	**18**	--	--	--
Methyl Methacrylate	ug/m3	91000	< 170 U	--	< 70 U	--	--	--
Methyl tert-butyl ether (MTBE)	ug/m3	1500	< 300 U	--	< 120 U	--	--	--
Methylene Chloride	ug/m3	39000	< 1400 U	--	< 590 U	--	--	--
n-Hexane	ug/m3	91000	< 140 U	--	< 60 U	--	--	--
Nonane	ug/m3		< 220 U	--	< 89 U	--	--	--
n-Propylbenzene	ug/m3	130000	< 200 U	--	< 84 U	--	--	--
o-Xylene	ug/m3		< 18 U	--	< 7.4 U	--	--	--
Pentane	ug/m3		< 240 U	--	< 100 U	--	--	--
Styrene	ug/m3	130000	< 35 U	--	< 14 U	--	--	--
t-Butyl alcohol (TBA)	ug/m3		< 500 U	--	< 210 U	--	--	--
Tetrachloroethene (PCE)	ug/m3	1500	**43000 J**	**12000 J**	**10000 J**	**1900 J**	**1000 J**	**140**
Tetrahydrofuran	ug/m3	260000	< 24 U	--	< 10 U	--	--	--
Toluene	ug/m3	650000	< 770 U	--	< 320 U	--	--	--
trans-1,2-Dichloroethene	ug/m3	5200	< 16 U	< 6.3 U	< 6.7 U	< 3.2 U	< 3.1 U	< 3.1 U
trans-1,3-Dichloropropene	ug/m3		< 19 U	--	< 7.7 U	--	--	--
Trichloroethene (TCE)	ug/m3	95	**75**	**24**	**12**	**2.4**	**1.8**	< 0.85 U
Trichlorofluoromethane	ug/m3	91000	< 92 U	--	< 38 U	--	--	--
Vinyl Acetate	ug/m3	26000	< 290 U	--	< 120 U	--	--	--
Vinyl Bromide	ug/m3	26	< 18 U	--	< 7.4 U	--	--	--
Vinyl Chloride	ug/m3	44	< 10 U	< 4.1 U	< 4.3 U	< 2 U	< 2 U	< 2 U
Total Xylenes	ug/m3	13000	< 36 U	--	**21.7**	--	--	--
1,3-Butadiene	ug/m3	13	< 1.8 U	--	< 0.75 U	--	--	--
2,2,4-Trimethylpentane	ug/m3		< 190 U	--	< 79 U	--	--	--
4-Ethyltoluene	ug/m3		< 200 U	--	< 84 U	--	--	--
alpha-Chlorotoluene	ug/m3	7.9	< 2.1 U	--	< 0.88 U	--	--	--
Freon 114	ug/m3		< 86 U	--	< 36 U	--	--	--
Heptane	ug/m3	52000	< 170 U	--	< 70 U	--	--	--
Air Phase Hydrocarbons								
C5 - C8 Aliphatic Hydrocarbons	ug/m3		< 3100 U	--	< 1300 U	--	--	--
C9 - C12 Aliphatic Hydrocarbons	ug/m3		< 1000 U	--	< 420 U	--	--	--
C9 - C10 Aromatic Hydrocarbons	ug/m3		< 1000 U	--	< 420 U	--	--	--
Semivolatile Organic Compounds								
Naphthalene	ug/m3	11	< 11 U	--	< 2.4 U	--	--	--
1,4-Dioxane	ug/m3	78	< 15 U	--	< 6.1 U	--	--	--
Hexachlorobutadiene	ug/m3	18	< 8.7 U	--	< 3.6 U	--	--	--
Other								
Helium	%		< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U

Notes:

Bold - detected

Blue Shaded - Detected result exceeded screening level for commercial worker exposure scenario.

MTCA - Model Toxics Control Act

ug/m3 = micrograms per cubic meter

% - percent

"--" - indicates results not available

U - Analyte not detected at or above Reporting Limit (RL) shown

J - Result value estimated

(1) - The commercial worker screening levels for vapor intrusion are based on the MTCA Method B subslab soil gas screening level, adjusted to an exposure duration of 45 hours/week for 50 weeks/year for adult workers.

Table 3. Ambient and Indoor Air Analytical Results - Phase 3

Project 190293, South Park Marina, Seattle, Washington

		Location	AMB-1	AMB-2	IA-1	IA-2	IA-3	IA-4
		Date	03/21/2023	03/21/2023	03/21/2023	03/21/2023	03/21/2023	03/21/2023
		Sample	AMB-1-230321	AMB-2-230321	IA-1-230321	IA-2-230321	IA-3-230321	IA-4-230321
Analyte	Unit	MTCA Method B Indoor Air Screening Level - Commercial Workers[(1)]						
Volatile Organic Compounds								
1,1,1-Trichloroethane	ug/m3	19000	< 0.55 U	< 0.55 U	< 0.55 U	< 0.71 U	< 0.55 U	< 0.55 U
1,1,2-Trichloroethane	ug/m3	0.73	< 0.055 U	< 0.055 U	< 0.055 U	< 0.071 U	< 0.055 U	< 0.055 U
1,1-Dichloroethane	ug/m3	7.3	< 0.4 U	< 0.4 U	< 0.4 U	< 0.53 U	< 0.4 U	< 0.4 U
1,1-Dichloroethene	ug/m3	780	< 0.4 U	< 0.4 U	< 0.4 U	< 0.52 U	< 0.4 U	< 0.4 U
1,2-Dichloroethane (EDC)	ug/m3	0.45	**0.093**	**0.089**	**0.085**	**0.084**	**0.085**	**0.085**
Chloroethane	ug/m3	39000	< 2.6 U	< 2.6 U	< 2.6 U	< 3.4 U	< 2.6 U	< 2.6 U
cis-1,2-Dichloroethene (cDCE)	ug/m3	160	< 0.4 U	< 0.4 U	< 0.4 U	< 0.52 U	< 0.4 U	< 0.4 U
Tetrachloroethene (PCE)	ug/m3	45	< 6.8 U	< 6.8 U	**260 J**	**470 J**	**36**	**4700 J**
trans-1,2-Dichloroethene	ug/m3	160	< 0.4 U	< 0.4 U	< 0.4 U	< 0.52 U	< 0.4 U	< 0.4 U
Trichloroethene (TCE)	ug/m3	2.8	< 0.11 U	< 0.11 U	< 0.11 U	< 0.14 U	< 0.11 U	**0.16**
Vinyl Chloride	ug/m3	1.3	< 0.26 U	< 0.26 U	< 0.26 U	< 0.33 U	< 0.26 U	< 0.26 U

Notes:

Bold - detected

Blue Shaded - Detected result exceeded screening level for commercial worker exposure scenario.

MTCA - Model Toxics Control Act

ug/m3 = micrograms per cubic meter

U - Analyte not detected at or above reporting limit shown

J - Result value estimated

(1) - The commercial worker screening levels for vapor intrusion are based on the MTCA Method B indoor air cleanup level, adjusted to an exposure duration of 45 hours/week for 50 weeks/year for adult workers.

Table 4. Tire Factory Chemical Inventory - 2023.05.05

Project No. 190293, South Park Marina, Seattle, Washington

Grid Location	Location	Product	Size	Quantity	Condition	Chemical Ingredients
1	On steel beam North Wall	Meguiars Carpet & Upholstery Cleaner	19 oz	1	UO	Butane, Propane, Sodium Metasilicate, Benzyl Benzoate, Diethyl Adipate
2	On dresser against North Wall	O'Reilly Brake Parts Cleaner Non-Chlorinated	14 oz	1	U	Benzene, Toluene Methanol, Acetone. Carbon Dioxide
	On dresser against North Wall	MasterPro Full Synthetic SAE 75W-90 Gear Oil	32 oz	1	UO	Highly refined mineral oils
	On floor near North wall	Valvoline Automatic Transmission Fluid Maxlife Multi-Vehicle	1 gal	2	UO	Distillates (Petroleum) Hydrotreated Heavy Paraffinic, Short-, medium- and long-chain alkyl methacrylates and short-chain alkyl methacrylamide copolymer, LUBRICATING OILS, PETROLEUM, C15-30, HYDROTREATED
	Left side of blue cabinets	Honda Automatic Transmission fluid	1 qt	2	U	2,6-Di-tert-butyl-p-cresol, Lubricating Base Stocks
	Left side of blue cabinets	Valvoline Synchromesh Manual Transmission Fluid	1 qt	1	U	DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC, Hydrotreated Heavy Paraffinic, Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Pr) esters, zinc salts
	Left side of blue cabinets	Valvoline Full Synthetic SAE 75W-140 Gear Oil	1 qt	2	U	HYDROTREATED LIGHT PARAFFINIC DISTILLATE, OLEFINSULFIDE, Mineral Oil, DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC, Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentoxide, and salted by amines, C12-14-tert-alkyl
	Left side of blue cabinets	Mobile 1 Synthetic Gear Lubricant LS 75W-140	1 qt	1	U	1-PROPENE, 2-METHYL-, SULFURIZED; ALKYL PHOSPHORIC ACID ESTER AMINE SALTS; DIISOOCTYL ADIPATE
	Left side of blue cabinets	AutoZone Brake Fluid DOT 4	32 oz	1	U	Tri and poly glycol ethers, alkyl ester
	Left side of blue cabinets	Bondo Body Repair Kit	kit	2	U	Benzoyl Peroxide; Benzoic Acid; C9-11-Branched Alkyl Esters; Zinc Stearate; Oxirane; Polymer with Methyloxirane; Monobutyl Ether; Calcium Sulfate; Iron Oxide; Ferric Ferrocyanide; Ferric Ammonium Ferrocyanide; Limestone; 1,3-Isobenzofurandione; Polymer with 2, 5-Furandione and 2,2-Oxybis; Talc; Styrene Monomer; Magnesium Carbonate; Oxide Glass Chemicals; Quaternary Ammonium Compounds; Bis(hydrogenated tallow alkyl)Dimethyl; Salts with Montmorillonite; Chlorite; Quartz Silica; Titanium Dioxide
	Left side of blue cabinets	OEM Premium Vacuum Pump Oil	296 mL	1	U	Hydrotreated Distillate, Heavy Paraffin; Hydrotreated Distillate, Light Paraffin
	Left side of blue cabinets	a/c pro r-134a pag 46 refrigerant oil with ice	5 oz	1	U	1,1,1,2-tetrafluoroethane; Polyalkylene glycol monobutyl ether; Ice-32
	Left side of blue cabinets	Mobil 1 Advanced Full Synthetic 0W-20	5 qt	1	U	2-PENTANOL, 4-METHYL-, HYDROGEN PHOSPHORODITHIOATE, ZINC SALT; BENZENAMINE, N-PHENYL-, REACTION PRODUCTS WITH 2,4,4-TRIMETHYLPENTENE; DISTILLATES, HEAVY, C18-50 - BRANCHED, CYCLIC AND LINEAR; ORGANO MOLY-SULFUR COMPLEX; PHOSPHORODITHIOIC ACID, MIXED 0,0 BIS (1,3-DIMETHYLBUTYL AND ISO-PR)ESTERS, ZINC SALTS
	Left side of blue cabinets	Mobil 1 DTE Oil Extra Heavy Circulating oil	1 gal	1	U	2-PENTANOL, 4-METHYL-, HYDROGEN PHOSPHORODITHIOATE, ZINC SALT; NAPHTHALENESULFONIC ACID, DINONYL-, CALCIUM SALT
	Left side of blue cabinets	Pennzoil Synchromesh Manual Transmission Fluid	1 qt	1	U	Magnesium sulphonate, alkenyl amide, alkenyl ester sulfide, alkenyl phosphite, alkylbenzene, heterocyclic ether, zinc dithiophosphate.
	Left side of blue cabinets	Coleman Propane Fuel (attached to burner)	16 oz	1	U	Propane
	Left side of blue cabinets	Royal Purple Synchromax High Performance Manual Transmission Fluid	1 qt	1	U	Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated; 1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich; Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based
	Left side of blue cabinets	Ford Motorcraft Orange Antifreeze/Coolant	1 gal	1	U	Ethane-1,2-diol; water; sodium 2-ethylhexanate; 2,2'-oxydiethanol; sodium neodecanoate; sodium hydroxide; sodium 4(or 5)-methyl1H-benzotriazolide
	Left side of blue cabinets	Peak Antifreeze	1 gal	1	U	Ethylene Glycol; Diethylene Glycol
	Left side of blue cabinets	Pentafrost A2 Antifreeze	1 gal	2	U	Ethylene Glycol; Diethylene Glycol; Sodium Hydroxide; Sodium Benzoate; Denatonium Benzoate
	Left side of blue cabinets	Mopar Antifreeze	1 gal	1	U	Ethylene Glycol; Diethylene Glycol; Disodium Tetraborate x10 H20
	Right side blue cabinets	Johnsons Non-Chlorinated Brake & Parts Cleaner	14 oz	1	U	Acetone; Methanol; Toluene; Heptane; Xylene
	Right side blue cabinets	O'Reilly Brake Parts Cleaner (Non-Chlorinated)	14 oz	2	U/UO	Benzene; Toluene; Methanol; Acetone
	Right side blue cabinets	CRC Mass Air Flow Sensor Cleaner	11 oz	1	U	Isohexane; 2,2,4-trimethylpentane
	Right side blue cabinets	STP CVT Full Synthetic Transmission Fluid	1 qt	4	1U 3UO	Could not find MSDS or ingredients
	Right side blue cabinets	STP Automatic Transmission Fluid +4	1 qt	1	UO	Could not find MSDS or ingredients
	Right side blue cabinets	O'Reilly Universal Antifreeze & Coolant	1 gal	2	U	Ethylene Glycol; Diethylene Glycol; Sodium 2-Ethyl Hexanoate; Sodium Neodecanoate
	Right side blue cabinets	MasterPro Chemicals Premium Honda/Multi Purpose Power Steering Fluid	1 qt	3	UO	Could not find MSDS or ingredients
	Right side blue cabinets	Nissan Continuously Variable Transmission Fluid	1 qt	2	1U 1UO	Synthetic base oil and additives; Highly refined mineral oil
	Right side blue cabinets	Honda Genuine Manual Transmission Fluid Advanced Protection	1 qt	1	U	Phosphorodithioic acid; O,O-di□C1-14-alkyl esters; zinc salts

Table 4. Tire Factory Chemical Inventory - 2023.05.05

Project No. 190293, South Park Marina, Seattle, Washington

Grid Location	Location	Product	Size	Quantity	Condition	Chemical Ingredients
2	Right side blue cabinets	O'Reilly Mercon V Full Synthetic Automatic Transmission Fluid	1 qt	4	UO	Could not find MSDS or ingredients
	On floor to the right of blue cabinets	Napa Quality AW 46 Hydraulic Oil (Non-Conductive)	5gal	1	U	Petroleum distillates; hydrotreated heavy paraffinic; Severely Hydrotreated Heavy Naphthenic Petroleum Oil
	North Wall near right cabinets	Myers Tire Seal	1 gal	1	U	Food Grade Additive; Fillers; Corrosion inhibiting additives (proprietary)
3	On North wall	MasterPro Full Synthetic SAE 75W-90 Gear Oil	32 oz	1	U	Highly refined mineral oils
	North Wall Trash	O'Reilly Brake Parts Cleaner (Non-Chlorinated	15 oz	1	U	Benzene; Toluene; Methanol; Acetone
	North Wall Trash	MasterPro Full Synthetic SAE 75W-90 Gear Oil	32 oz	1	U	Highly refined mineral oils
	North Wall Trash	Valvoline Automotive Multi-Vehicle High Temperature Red Grease	14.1 oz	1	U	DIPHENYLAMINE
	North Wall Trash	O'Reilly Universal Antifreeze & Coolant	1 gal	1	U	Ethylene Glycol; Diethylene Glycol; Sodium 2-Ethyl Hexanoate; Sodium Neodecanoate
	On Desk against east wall	K&W Knock'er Loose Penetrant	1.12 lbs	1	U	Hydrotreated middle distillates; Aliphatic hydrocarbon; Dipropylene glycol n-propyl ether; Dipropylene glycol methyl ether acetate; Pine resin distillate; Diisobutyl ketone
4	On floor near entrance from warehouse	O'Reilly Universal Antifreeze & Coolant	1 gal	1	U	Ethylene Glycol; Diethylene Glycol; Sodium 2-Ethyl Hexanoate; Sodium Neodecanoate
	On floor near entrance from warehouse	Prestone Synthetic Brake Fluid DOT 4	12 oz	1	U	Various Ethylene glycols; Diisopropanolamine
	On Island desk west of garage Air Sample	NAPA Starting Fluid	11 oz	1	U	Diethylether; Heptane; Propane; Isobutane
	On Island desk west of garage Air Sample	O'Reilly Brake Parts Cleaner (Non-Chlorinated)	14 oz	1	U	Benzene; Toluene; Methanol; Acetone
	On bottom shelf near entrance from warehouse	Idemitsu ATF Type-HP	1 qt	4	U	Alkyl ester carboxylic acid; Lubricating Base Stocks
	On bottom shelf near entrance from warehouse	Acura All-Wheel Drive Fluid (DPSF)	1 qt	2	U	Petroleum Distillates
	On bottom shelf near entrance from warehouse	Honda Genuine VTM-4 Differential Fluid	1 gal	1	U	2,6-di-tert-butyl p-cresol
	On bottom shelf near entrance from warehouse	Mopar Transfer Case Lubricant	1 qt	1	U	Substituted hydrocarbyl sulfide; Alkenyl imidazoline; ethoxylated Amine; Interchangeable low viscosity base oil
5	Near SE corner of garage	Antifreeze	1 gal	2	U	Various glycols
	West of Air sampling point	1-K Heater Fuel Kerosene	2.5 gal	1	U	Kerosene
	West of Air sampling point	O'Reilly Brake Parts Cleaner (Non-Chlorinated	14 oz	1	U	Benzene; Toluene; Methanol; Acetone
	West of Air sampling point	Sure Shot refillable sprayer (labeled with Brake Bane)	--	1	U	**Had tetrachloroethene detector tube positive reading on nozzle (0.75ppm)**
	West of Air sampling point	Auto Zone Non-Chlorinated Brake Cleaner	14 oz	1	U	Toluene; Heptane; Xylene
6	On floor near east wall	NAPA North American Vehicle Orange Antifreeze & Coolant	1 gal	2	UO	Ethylene Glycol; Diethylene Glycol; Potassium 2-ethylhexanoate; Denatonium Benzoate
	On Desk against east wall	Mac's 1073 Battery Terminal Protector Non-Chlorinated	11.75 oz	1	U	Butane; Acetone; Heptane; Xylene; Toluene; Propane; Ethylbenzene; Medium Aromatic Hydrocarbons; Naphthalene
	On floor near east wall	1-K Heater Fuel Kerosene	1 gal	1	U	Kerosene
	On Desk against east wall	Permatex Copper Spray-A-Gasket Hi-Temp Sealant	9 oz	1	U	Acetone; Naphtha; Hydrotreated light; Heptane; Propane; Butane; Distillates (petroleum hydrotreated heavy naphthenic; Acetic acid ethyl ester; Copper; Distillates (petroleum) light distillate hydrotreating process; low-boiling; Cyclohexane methyl-
	On Desk against east wall	O'Reilly Brake Parts Cleaner (Non-Chlorinated	14 oz	1	U	Benzene; Toluene; Methanol; Acetone
	On Desk against east wall	O'Reilly Mercon V Full Synthetic Automatic Transmission Fluid	1 qt	1	U	Could not find MSDS or ingredients
	On floor near east wall	No Touch Excellent Tire Care	21 oz	1	U	Glycerin; Ammonia Solution
	On tool cart near East wall	CRC Freeze-Off Super Penetrant	11.5 oz	1	U	1,1-difluoroethane; distillates (petroleum), hydrotreated middle; distillates (petroleum), hydrotreated light; turpentine, oil; 2-butoxyethanol; 4-hydroxy-4-methylpentan-2-one (diacetone alcohol); naphtha; pine oil
	On tool cart near East wall	Sprayway Penetrating Gel Lubricant with PTFE	12 oz	1	U	2-Propanone; Petrolatum; Distillates (petroleum), hydrotreated light; Acetic acid, methyl ester; Naphtha (petroleum), hydrotreated light; Heptane; Cyclohexane, methyl-; Methanol
	On tool cart near East wall	Gunk Engine Degreaser Heavy Duty Gel	15 oz	1	U	Isoparaffinic Petroleum Distillate; C9-15 Heavy Aromatic Hydrocarbons; Poly(oxyethylene) Sorbitol Hexaoleate; D-limonene; Tert-butylbenzene; Tripropylene Glycol Monomethyl Ether; 1,2,3,4-tetramethylbenzene; 1,2,3,5-tetramethylbenzene; 1,4-diethylbenzene; Naphthalene; 1,2,3-trimethylbenzene; 1,2,4-trimethylbenzene; 3-propyltoluene; 1h-indene; 2,3-dihydro-; Benzene; 1,3-diethyl-; Diethylbenzene; Propylene Glycol; Quartz; Crystalline Silica; Cumene
	Near SE corner of garage	Pennzoil Safe Lubrication GearPlus SAE 80W-90 GL-5	18 gal	1	U	Interchangeable low viscosity base oil; Distillates (petroleum), hydrotreated light; Alkenyl amine; Alkyl amine; Alcohols, C12-14, ethoxylated
	Near SE corner of garage	O'Reilly Synthetic DOT 3 Brake Fluid	1 gal	1	U	Triethylene glycol, monobutyl ether; Diethylene glycol, monobutyl ether; Triethylene glycol
7	Near entrance to garage from warehouse	Used Oil/Fluids Containers		3		
	Near entrance to garage from warehouse	O'Reilly Universal Antifreeze & Coolant	1 gal	5	2U 3UO	Ethylene Glycol; Diethylene Glycol; Sodium 2-Ethyl Hexanoate; Sodium Neodecanoate
	Near entrance to garage from warehouse	VHT High Temperature Wheel Paint	11 oz	1	U	Acetate; Ketones

Table 4. Tire Factory Chemical Inventory - 2023.05.05

Project No. 190293, South Park Marina, Seattle, Washington

Grid Location	Location	Product	Size	Quantity	Condition	Chemical Ingredients
7	Near entrance to garage from warehouse	Union Unoba Moly HD 2 Grease	5 gal	1	U	Lubricant Base Oil (Petroleum)
	Near entrance to garage from warehouse	Drum of used Antifreeze	55 gal		U	
	2nd floor NW corner	DAP Weldwood Contact Cement	1 gal	1	UO	Toluene; Distillates (petroleum), light distillate hydrotreating process, low-boiling; Methyl ethyl ketone (MEK); Petroleum hydrocarbon resin; Hydrogenated castor oil; Magnesium oxide
	2nd floor NW corner	Parker Paint Interior Satin Latex Enamel Satin Glow	1 gal	1	I	propylene glycol; cannot find SDS (old product) for full chemical list
	2nd floor NW corner	Sherwin Williams Chemical Coatings Kem Lustral Enamel Lemon Yellow	1 gal	1	D, old dented appears UO	Petroleum distillates; Lead; cannot find SDS (old product) for full chemical list
15	On top of shelving near stairs by storage room	Sherwin Williams Chemical Coatings Kem Lustral Enamel Brown	1 gal	1	UO	Petroleum distillates; cannot find SDS (old product) for full chemical list
	On top of shelving near stairs by storage room	Sherwin Williams 1-100 Exterior Latex Tinting White	5 gal	1	U	Crystalline Silica; Zinc
	On top of shelving near stairs by storage room	Rust-Oleum Professional Traffic Striping Paint Latex White	1 gal	1	UO	Titanium Dioxide; 2-(2-butoxyethoxy)ethanol; Crystalline Silica / Quartz; Hydrotreated Heavy Paraffinic Petroleum Distillates
	On top of shelving near stairs by storage room	Sherwin Williams Loxon Exterior Acrylic Masonry Primer White A24 W 300	1 gal	1	UO?	Titanium Dioxide; Crystalline Silica, respirable powder; Zinc Oxide; Heavy Paraffinic Oil
	On top of shelving near stairs by storage room	Far West Paint Zone Marking Coating #1076 Lead Free Red	1 gal	2	U	Could not find MSDS or ingredients
	On top of shelving near stairs by storage room	Far West Paint E-Z-On Acrylic Enamel Exterior Lasting White	1 gal	1	U	Could not find MSDS or ingredients
	On top of shelving near stairs by storage room	Kelly-Moore Paints Sat-N-Sheen White and light Tint Base	1 gal	1	U	Could not find MSDS or ingredients
	On top of shelving near stairs by storage room	Behr Premium Plus Exterior Flat Pure White	5 gal	1	U	Titanium dioxide; Kaolin, calcined; C12-14 Fatty alkyl ether sulfate, sodium salt
Storage Room	Storage room	1-K Heater Fuel Kerosene	2.5 gal	2		Kerosene
	Storage room	1-K Heater Fuel Kerosene	1 gal	6	UO	Kerosene
	Storage room	Killz 2 Exterior Primer Gray	1 gal	5	3U 2UO	Limestone; Titanium dioxide; Talc; Quartz (Crystalline silica)
	Storage room	Round Up	1 gal	1	U	Glyphospate
	Storage room	Zep Heavy Duty Floor Stripper	1 gal	1	U	Monoethanolamide; 2-butoxyethonal
	Womens Bathroom	Bleach white tier Cleaner	1 qt	1	U	Sodium Metasilicate
22	By desk North side of grid	Master Pro GL-5 SAE 80W-90 Gear Oil	1 gal	2	1U 1UO	Lubricant Base Oil (Petroleum) Highly refined mineral oils (C15-C50)
	By desk North side of grid	Valvoline Full Synthetic Maxlife Multi-Vehicle ATF	1 gal	1	U	Distillates (Petroleum) Hydrotreated Heavy Paraffinic, Short-, medium- and long-chain alkyl methacrylates and short-chain alkyl methacrylamide copolymer, LUBRICATING OILS, PETROLEUM, C15-30, HYDROTREATED
	By desk North side of grid	O'Reilly Premium ATF	1 gal	1	U	Hydrotreated Heavy Paraffinic Petroleum Distillates; Severely Solvent Refined Heavy/Light Paraffinic Petroleum Oil
	By desk North side of grid	STP Gear Oil SAE75W-90	1 qt	3	U	Could not find MSDS or ingredients
	By desk North side of grid	MasterPro Full Synthetic SAE 75W-90 Gear Oil	32 oz	1	UO	Highly refined mineral oils
	By desk North side of grid	Prestone Synthetic Brake Fluid DOT 3	12 oz	1	U	Triethylene glycol monoether; Diethyene glycol; other glycols and ethers
	By desk North side of grid	Master Pro Grease Super Lithium EP Moly Grease	14 oz	2	UO	Lubricating grease
25	Blue Cabinet South Wall	Remove+ Battery Cleaner + Acid Detector	14 oz	1	U	Butane; 2-Propanol; Propane; Sodium Bicarbonate
	Blue Cabinet South Wall	XL Prolube Bearing Lube	8 oz	1	U	Could not find MSDS or ingredients
	Blue Cabinet South Wall	Turtle Wax Power Out! Upholstery Cleaner & Protection	18 oz	1	U	Propane; Isobutane; Sodium Lauryl Sarcosinate; Lauryl Amine Oxide; Alkylpolyglucoside
	Blue Cabinet South Wall	Pentosin Super DOT 4 Brake Fluid	1 L	1	U	Polyalkyleneglycolether; Triethylenglycol monomethylether; Triethyleneglycol monobutylether; Polyethyleneglycol monobutylether; Tetraethyleneglycol monomerthylether; Boateester of Polyehtyleneglycol monomethyether
	Blue Cabinet South Wall	STP Gas Treatment	5.25 oz	2	UO	Straight-run Kerosene; Distillates (petroleum), hydrodesulfurized middle; Kerosene; Distillates (petroleum), hydrodesulfurized light catalytic cracked; Kerosine (petroleum), hydrodesulfurized; Distillates (petroleum), light hydrocracked; Solvent naphtha (petroleum), light arom; naphthalene; Solvent naphtha (petroleum), medium aliph.; toluene; benzene; ethylbenzene; cumene; 2-ethylhexan-1-ol
	Blue Cabinet South Wall	STP Premium Grease Hi-Temp	1 lb	1	U	Could not find MSDS or ingredients
	Blue Cabinet South Wall	CRC Freeze-Off Super Penetrant	11.5 oz	1	U	1,1-difluoroethane; distillates (petroleum), hydrotreated middle; distillates (petroleum), hydrotreated light; turpentine, oil; 2-butoxyethanol; 4-hydroxy-4-methylpentan-2-one (diacetone alcohol); naphtha; pine oil
	Blue Cabinet South Wall	VHT High Temperature Wheel Paint	11 oz	1	U	Acetate; Ketones
	Blue Cabinet South Wall	K&B Air Filter Oil	6.5 oz	1	U	Petroleum distillates; hydrotreated; heavy paraffinic; 1-Decene; Homopolymer; Hydrogenated; C.I. Solvent Red 164; Petroleum gases; liquefied; sweetened
	Blue Cabinet South Wall	VHT High Temperature Caliper Paint	11 oz	1	U	Ketones; Toluene
	Blue Cabinet South Wall	Dupli Color Automotive Primer Filler	11 oz	1	U	Ketones

Table 4. Tire Factory Chemical Inventory - 2023.05.05

Project No. 190293, South Park Marina, Seattle, Washington

Grid Location	Location	Product	Size	Quantity	Condition	Chemical Ingredients
25	Blue Cabinet South Wall	Rust-Oleum Gloss Protective Enamel	12 oz	1	U	Xylene; Acetone
	Blue Cabinet South Wall	Rust-Oleum High Performance Wheel finish	11 oz	1	U	Toluene; Acetone; Xylene
	Blue Cabinet South Wall	Dupli Color Perfect Match Premium Auto Paint GM	8 oz	1	U	Ketones; Toluene; Acetates
	Red Cabinet South Side	O'Reilly Brake Parts Cleaner (Non-Chlorinated	14 oz	2	U	Benzene; Toluene; Methanol; Acetone
	Red Cabinet South Side	Rema Tip Top Bead Sealer 960F	32 oz	2	1U 1UO	Heptane
	Red Cabinet South Side	Pre-Buff Cleaner 71F	32 oz	2	U	Heptane; Acetone
	Red Cabinet South Side	Cold Vulcanizing Fluid 203-F	8 oz	2	U	Heptane
	Red Cabinet South Side	CRC Mass Air Flow Sensor Cleaner	11 oz	1	U	Isohexane; 2,2,4-trimethylpentane
	SE corner of grid	FormulaShell Syn Blend 5W-20	180 gal tote	1	U	Polyolefin polyamine succinimide polyol; Alkaryl amine; Interchangeable low viscosity base oil
	SE corner of grid	FormulaShell Syn Blend 5W-30	180 gal tote	1	U	Polyolefin polyamine succinimide polyol; Alkaryl amine; Interchangeable low viscosity base oil
26	Floor NW corner	Mobil 1 Extended Performance High Mileage 5W-20 Full Synthetic	5 qts	1	UO	1-decene, homopolymer hydrogenated; c14-16-18 alkyl phenol; calcium hydroxide; polyolefin polyamine succinimide; severely hydrotreated heavy paraffinic distillate; solvent dewaxed heavy paraffinic distillate
	Floor NW corner	O'Reilly Full Synthetic High Mileage SAE 5W-20	1 gal	3	U	Lubricant Synthetic Base Oil (Petroleum); Highly refined mineral oils; Passenger Car Motor Oil Additives Mixture; Zinc dialkyl dithiophosphate
	Floor NW corner	O'Reilly Heavy Duty Full Synthetic SAE 15W-40	1 gal	1	UO	Could not find MSDS or ingredients (likely similar to O'Reilly Full Synthetic High Mileage SAE 5W-20)
	Floor NW corner	O'Reilly Universal Antifreeze & Coolant	1 gal	1	U	Ethylene Glycol; Diethylene Glycol; Sodium 2-Ethyl Hexanoate; Sodium Neodecanoate
	Shelves NE corner of shop	Castrol Edge High Mileage SAE 10W-30	5 qts	1	UO	Distillates (petroleum), hydrotreated heavy paraffinic; Distillates (petroleum), solvent-dewaxed heavy paraffinic
	Shelves NE corner of shop	Mobil 1 Extended Performance High Mileage 5W-20 Full Synthetic	5 qts	1	UO	1-decene, homopolymer hydrogenated; c14-16-18 alkyl phenol; calcium hydroxide; polyolefin polyamine succinimide; severely hydrotreated heavy paraffinic distillate; solvent dewaxed heavy paraffinic distillate
	Shelves NE corner of shop	Blue Devil Radiator Flush	1 qt	1	U	Proprietary Ingredients
	Shelves NE corner of shop	Mobil 1 Advanced Fuel Economy 0W-16	1 qt	1	U	2-pentanol, 4-methyl-, hydrogen phosphorodithioate, zinc salt; benzenamine, n-phenyl-, reaction products with 2,4,4-trimethylpentene; distillates, heavy, c18-50 - branched, cyclic and linear; organo moly-sulfur complex; phosphorodithioic acid, mixed 0,0 bis (1,3-dimethylbutyl and iso-pre) esters, zinc salts; solvent dewaxed heavy paraffinic distillate
	Shelves NE corner of shop	Castrol Edge Euro Car SAE 5W-40	1 qt	3	U	Distillates (petroleum), hydrotreated heavy paraffinic; Distillates (petroleum), solvent-dewaxed heavy paraffinic; Distillates (petroleum), solvent-refined heavy paraffinic; Lubricating oils; Long chain alkyl phenol
	Shelves NE corner of shop	Castrol GTX High Mileage SAE 5W-30	5 qt	1	U	Distillates (petroleum), hydrotreated heavy paraffinic; Distillates (petroleum), hydrotreated light paraffinic; Distillates (petroleum), solvent dewaxed light paraffinic; Distillates (petroleum), solvent dewaxed heavy paraffinic
	Shelves NE corner of shop	O'Reilly Universal Antifreeze & Coolant	1 gal	1	U	Ethylene Glycol; Diethylene Glycol; Sodium 2-Ethyl Hexanoate; Sodium Neodecanoate
	Shelves NE corner of shop	STP Diesel Motor Oil SAE 15W-40	1 gal	1	U	Petroleum distillates, hydrotreated heavy paraffinic
	Shelves NE corner of shop	Peak Original Equipment Technology Asian Vehicles Green Antifreeze and Coolant	1 gal	1	U	ethylene glycol; diethylene glycol; denatonium benzoate
	East wall of shop	Quaker State Full Synthetic SAE 5W-20	1 qt	28	1U 27UO	Polyolefin polyamine succinimide polyol; Alkaryl amine; Interchangeable low viscosity base oil
	East wall of shop	Liquid Guardian Syn dexos1Gen2 SAE 0W-20	55 gal	2	U	Synthetic Base Oil; Additives
	East wall of shop	Shell T2 HD 15W-40	55 gal	1	U	Alkylphenol; Calcium sulphonate; Zinc dialkyldithiophosphate; Zinc dialkyl dithiophosphate
	Shelves NE corner of shop	Mohawk Euro Paste Mounting Lubricant	7.5 lbs	2	U	Anionic surfactant thickening agents; dye

Notes:

oz = fluid ounces
qt = quarts
gal = gallons
lbs = pounds
mL = milliliters
L = liters

U = Used
UO = Unopened
D = Deteriorated

FIGURES



Screening and Exposure Levels		PCE Concentration
MTCA Screening Levels	Groundwater (Commercial Worker Exposure)*	120

- PCE detected at a concentration 10 times greater than the screening level
- PCE detected at a concentration greater than the screening level
- PCE not detected or detected at a concentration less than the screening level
- Well not sampled
- Monitoring Well

Site Features

- Site Boundary
- Building Layout
- Crack (<0.25") Observed in Slab

October 2022 Samping Event — **MW-22** — *Exploration ID*; *March 2023 Samping Event*

Notes:
- PCE - Tetrachloroethene
- MTCA - Model Toxics Control Act
- All units in micrograms per liter (ug/L)

The commercial worker screening levels are based on the MTCA Method B groundwater screening level for vapor intrusion, adjusted to an exposure duration of 45 hours/week for 50 weeks/year for adult workers.

PCE Results in Shallow Groundwater - Phase 2 and Phase 3

Vapor Intrusion Assessment Memorandum
South Park Marina
8604 Dallas Avenue South
Seattle, WA

Aspect Consulting	JUN-2023	BY: AJY / NLK	FIGURE NO. 1
	PROJECT NO. 190293	REVISED BY: ---/---	

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GIS Path: G:\projects\SouthParkMarina_190293\SouthParkMarina_190293.aprx: VAM 01 PCE Results in Groundwater - Phase 2 and Phase 3 || User: nkochle || Print Date: 6/13/2023

GIS Path: G:\projects\SouthParkMarina_190293\SouthParkMarina_190293.aprx; VAM 02 PCE Results in Soil Gas and Indoor Air - Phase 2 and Phase 3 | User: nlochte | | Print Date: 6/9/2023

MW-12

AMB-2
3/2023
< 6.8 U

Overhead Garage Roll Up Door

Warehouse (Service Area)

Door

IA-04
3/2023
4,700 J

SG-04
3/2023
140

Overhead Garage Roll Up Door

Warehouse (Tire Storage)

MW-22

SG-01
10/2022
43,000 J
3/2023
12,000 J

SG-02
10/2022
10,000 J
3/2023
1,900 J

Storage/ Office

MW-21

Door

Lobby

Restroom

IA-02
3/2023
470 J

Overhead Garage Roll Up Door

IA-01
3/2023
260 J

Waiting Room

Restroom

SG-03
3/2023
1,000 J

MW-13D

MW-13

Garage

IA-03
3/2023
36

Overhead Garage Roll Up Door

MW-20

AMB-1
3/2023
< 6.8 U

Screening and Exposure Levels		PCE Concentration
MTCA Screening Levels	Subslab Soil Gas (Commercial Worker Exposure)*	1,500
	Indoor Air (Commercial Worker Exposure)*	44.9
Washington Department of Labor and Industries Permissible Exposure Level		170,000
Occupational Health and Safety Administration Permissible Exposure Level		680,000

0 10 20 Feet

N
True North
Project North

- PCE detected at a concentration 100 times greater than the screening level
- PCE detected at a concentration 10 times greater than the screening level
- PCE detected at a concentration greater than the screening level
- PCE not detected or detected at a concentration less than the screening level
- Not sampled

October 2022 Samping Event — AMB-1 — Exploration ID
March 2023 Samping Event

- Air Sampling Location
- Subslab Soil Gas Sample Location
- Alluvial Unit Well
- Fill Unit Well

Site Features
- Site Boundary
- Building Layout
- Crack (<0.25") Observed in Slab

Notes:
- PCE - Tetrachloroethene
- MTCA - Model Toxics Control Act
- J – Result value estimated
- All units in micrograms per cubic meter (ug/m³)
- Indoor air not sampled during October 2022 as part of Phase 2 of the Remedial Investigation
*The commercial worker screening levels are based on the MTCA Method B indoor air cleanup level and subslab soil gas screening level, adjusted to an exposure duration of 45 hours/week for 50 weeks/year for adult workers.

PCE Results in Soil Gas and Indoor Air - Phase 2 (October 2022) and Phase 3 (March 2023)

Vapor Intrusion Assessment Memorandum
South Park Marina
8604 Dallas Avenue South
Seattle, WA

Aspect Consulting	JUN-2023	BY: AJY / NLK	FIGURE NO. 2
	PROJECT NO. 190293	REVISED BY: ---/---	

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GIS Path: G:\projects\SouthParkMarina_190293\SouthParkMarina_190293.aprx; VAM 03 Parts per Billion Photoionization Detector Screening Results | User: nkoehle | Print Date: 6/9/2023

AMB-2
MW-12
Gas/Oil Cans: 4,611
Engine Bay of Red Truck: 136,600
Chemical Storage Cabinets: 319
Overhead Garage Roll Up Door
187 - 222
147 - 401
243 - 339
Puddle on Slab, Appears Oily: 599
218 - 263
Warehouse (Service Area)
232 - 269
Engine Bay of Black Car: 153 - 312
Engine Bay of Yellow Car: 253 - 312
Door
183 - 274
Puddles of red and green liquid on slab: no elevated readings above background
IA-04
SG-04
Oil/Antifreeze Storage: 143 - 445
Overhead Garage Roll Up Door
164 - 183
Unlabeled Open Bucket of Liquid: 1,443
196 - 224
191 - 213
Upstairs in the Storage Portion of Warehouse: 207 - 223
175 - 206
Warehouse (Tire Storage)
201 - 230
204 - 224
MW-22
214 - 223
Corner of Office Contained Elevated Readings Between 801 - 1,656
202 - 228
Further Investigation Showed Open Kerosene Container (26,900)
202 - 226
188 - 216
170 - 201
Storage/ Office
Lobby
251 - 279
312 - 579
SG-01
IA-01
SG-02
MW-21
Door
Restroom
229 - 256
190 - 205
IA-02
Overhead Garage Roll Up Door
0 - 6
SG-03
203 - 274
4 - 11
Waiting room walls demolished. Now open to rest of lobby.
MW-13D
MW-13
0 - 0
Garage
Overhead Garage Roll Up Door
0 - 2
IA-03
0 - 4
Engine Bay of White Car: 0 - 3
Open Oil Drums: 90 - 210
Chemical Storage Cabinet: 292 - 341
MW-20
Overhead Garage Roll Up Door
AMB-1
N
True North
Project North
0
10
20
Feet

Air Sampling Location
Subslab Soil Gas Sample Location
Alluvial Unit Well
Fill Unit Well

Site Features
Site Boundary
Building Layout
Crack (<0.25") Observed in Slab

Note: All screening results in parts per billion (ppb) unless otherwise noted.

188 - 216
Screening conducted throughout area at floor and breathing height. The range of PID results in ppb are shown.

Parts per Billion Photoionization Detector Screening Results

Vapor Intrusion Assessment Memorandum
South Park Marina
8604 Dallas Avenue South
Seattle, WA

Aspect Consulting	JUN-2023	BY: AJY / NLK	FIGURE NO. 3
	PROJECT NO. 190293	REVISED BY: WBL	

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Screening and Exposure Levels		PCE Concentration
MTCA Screening Levels	Indoor Air (Commercial Worker Exposure)*	1,500
		44.9
Washington Department of Labor and Industries Permissible Exposure Level		170,000
Occupational Health and Safety Administration Permissible Exposure Level		680,000

Air Sampling Location
Subslab Soil Gas Sample Location
Alluvial Unit Well
Fill Unit Well

Site Features
Site Boundary
Building Layout
Crack (<0.25") Observed in Slab

< 700 ug/m3
PCE concentration in air measured using a Gastec colormetric sampler

Notes:
- All Gastec sample results converted from parts per million (ppm) to ug/m3 using temperature at time of sampling and standard pressure.
- PCE = tetrachloroethylene
- ug/m3 - micrograms per cubic meter

Gastec Sample Results - PCE in Air

Vapor Intrusion Assessment Memorandum
South Park Marina
8604 Dallas Avenue South
Seattle, WA

Aspect Consulting	JUN-2023	BY: AJY / NLK	FIGURE NO. 4
	PROJECT NO. 190293	REVISED BY: WBL	

Data source credits: None || Basemap Service Layer Credits: © OpenStreetMap (and) contributors, CC-BY-SA

GIS Path: G:\projects\SouthPark\Marina_190293\SouthPark\Marina_190293.aprx: VAM 04 Gastec Sample Results - PCE in Air | User: nkoehle | Print Date: 6/15/2023

ATTACHMENT A

Proposed Indoor Air Sampling Plan at the Tire Factory Building

MEMORANDUM

Project No. 190293

February 16, 2023

To: Julia Schwarz, Washington State Department of Ecology

cc: Allison Crowley, Seattle City Light
Roy Kuroiwa, Port of Seattle
Phillip Spadaro and Erin O'Connell, TIG Environmental

From:

Andrew Yonkofski, LHG
Senior Hydrogeologist
ayonkofski@aspectconsulting.com

Jeremy Porter, PE
Principal Engineer
jporter@aspectconsulting.com

Re: **South Park Marina –Proposed Indoor Air Sampling Plan at the Tire Factory Building**

In accordance with Agreed Order No. DE 16185 (the Agreed Order; AO) between the Washington State Department of Ecology (Ecology) and the Potentially Liable Parties (PLP) Group, which consists of South Park Marina Limited Partnership (SPM), the Port of Seattle (Port), and the City of Seattle (City), a Remedial Investigation (RI) is being conducted for the South Park Marina Site (Site) located at 8604 Dallas Avenue South in Seattle, Washington (the Property).

As part of the RI, an assessment is being conducted for the Tire Factory building (located in the northwest corner of the Property) to assess the potential for vapor intrusion of tetrachloroethylene (PCE) from a presumed off-Property upgradient source. To date, this assessment has included comparing pre-validated shallow groundwater and subslab soil gas data to screening levels published in Washington State Department of Ecology's (Ecology) CLARC spreadsheet (January 2023). Based on this data, additional vapor intrusion assessment, including indoor air sampling, is warranted for the Tire Factory building[1]. Aspect Consulting, LLC (Aspect) has prepared this memorandum on behalf the PLP Group to document the approach, including changes to the previously approved plan, that was discussed with Ecology in emails between January 6 and February 2, 2023. Sampling details are described below.

[1] A building inspection and chemical inventory was conducted in January 2023 to determine if there were potential background sources of PCE that would interfere with sampling. One potential source within the building (a parts washer) was identified; however, that potential source was removed, and further characterization indicated it did not contain PCE.

Proposed Vapor Intrusion Assessment Sampling Plan

Locations of proposed indoor air and subslab soil gas samples are shown on Figure 1. The rationale for each location is as follows:

- One indoor air sample will be collected in the lobby, adjacent to the subslab soil gas locations SG-01 and SG-02, where PCE was detected in soil gas at concentrations exceeding the Model Toxics Control Act (MTCA) Method B commercial screening level.
- One indoor sample will be collected in the western restroom, to assess any potential preferential pathway for vapor migration from recent sewer repairs.
- One indoor air sample will be collected in the warehouse, near where the former parts wash was located. Although the former parts wash is not expected to be a potential background source, this location is still proposed for sampling to assess any variability in the larger, less sealed portion of the warehouse that is commonly occupied by workers.
- One indoor air sample will be collected in the garage, which is on the western side of the Tire Factory building and closest to the presumed off-Property source and highest concentrations of PCE in groundwater.
- Two ambient air samples will be collected outside of the east and west sides of the building to assess potential contributions outside of the Tire Factory building. The western location will help assess any potential contribution to ambient air from the presumed off-Property source. The eastern location may be adjusted to the north or south side of the Tire Factory building depending on prevailing wind direction at the time of sampling.
- Additional subslab soil gas sampling will be conducted immediately following air sampling: locations SG-01 and SG-02 will be reoccupied, and two additional locations (SG-03 and SG-04) will be co-located with the indoor air samples in the restroom and warehouse to allow direct comparison of results.

The sampling will be conducted in accordance with the Sampling and Analysis Plan / Quality Assurance Project Plan (SAP/QAPP) included as Appendix C of the RI Work Plan Addendum[2] with one modification. The SAP/QAPP identified collection of samples over a 24-hour period; however, given the commercial use of the building, the samples will be collected over an 8-hour period during working hours to assess the potential for vapor intrusion to affect indoor air quality under the conditions that workers are commonly using the building.

According to the Tire Factory, they generally operate with the doors to the garage space open; however, we cannot guarantee that this is always the case when employees are on site. As part of the vapor intrusion assessment, the indoor air samples will be collected as close as possible to normal operating conditions to evaluate the potential exposure to workers during routine business operations (e.g., with the heating system operating) while providing a conservative assessment of potential worker exposure if workers were present with the garage doors closed. Based on discussions with Ecology, to meet these requirements, samples will be collected for a period of 8 hours starting approximately two hours before the Tire Factory opens the garage doors for the day. This will result in a garage sample that is approximately 25% during a closed-door condition after

[2] Aspect Consulting, LLC, 2022, Remedial Investigation Work Plan Addendum, South Park Marina, Seattle, Washington, Final, dated August 23, 2022.

the garage has been closed for an extended period of time and 75% during normal business operations with roll-up doors open, which will provide a sufficiently conservative evaluation of vapor intrusion potential for site workers. Indoor air sample results will be evaluated in conjunction with results from ambient air samples to determine any potential contribution from ambient air.

Limitations

Work for this project was performed for Seattle City Light (Client), and this memorandum was prepared in accordance with generally accepted professional practices for the nature and conditions of work completed in the same or similar localities, at the time the work was performed. This memorandum does not represent a legal opinion. No other warranty, expressed or implied, is made.

All reports prepared by Aspect Consulting for the Client apply only to the services described in the Agreement(s) with the Client. Any use or reuse by any party other than the Client is at the sole risk of that party, and without liability to Aspect Consulting. Aspect Consulting's original files/reports shall govern in the event of any dispute regarding the content of electronic documents furnished to others.

Attachments: Figure 1 – Proposed Air Sampling Locations

V:\190293 South Park Marina\Deliverables\Vapor Intrusion Assessment Memo\SPM - Indoor Air Sampling Plan.docx

FIGURE

GIS Path: G:\projects\SouthParkMarina_190293\SouthParkMarina_190293.aprx: \MAP\01 Proposed Air Sampling Locations\ | User: nkochie || Print Date: 2/16/2023



Explorations

- Proposed Air Sampling Location
- Proposed Subslab Soil Gas Sample Location
- Alluvial Unit Well
- Fill Unit Well
- Subslab Soil Gas Sample Location

Site Features

- Site Boundary
- Building Layout

N

True North

Project North

0 10 20

Feet

Proposed Air Sampling Locations

Vapor Intrusion Assessment
South Park Marina
8604 Dallas Avenue South
Seattle, WA

Aspect Consulting	FEB-2023	BY: AJY / NLK	FIGURE NO. 1
	PROJECT NO. 190293	REVISED BY: ---/---	

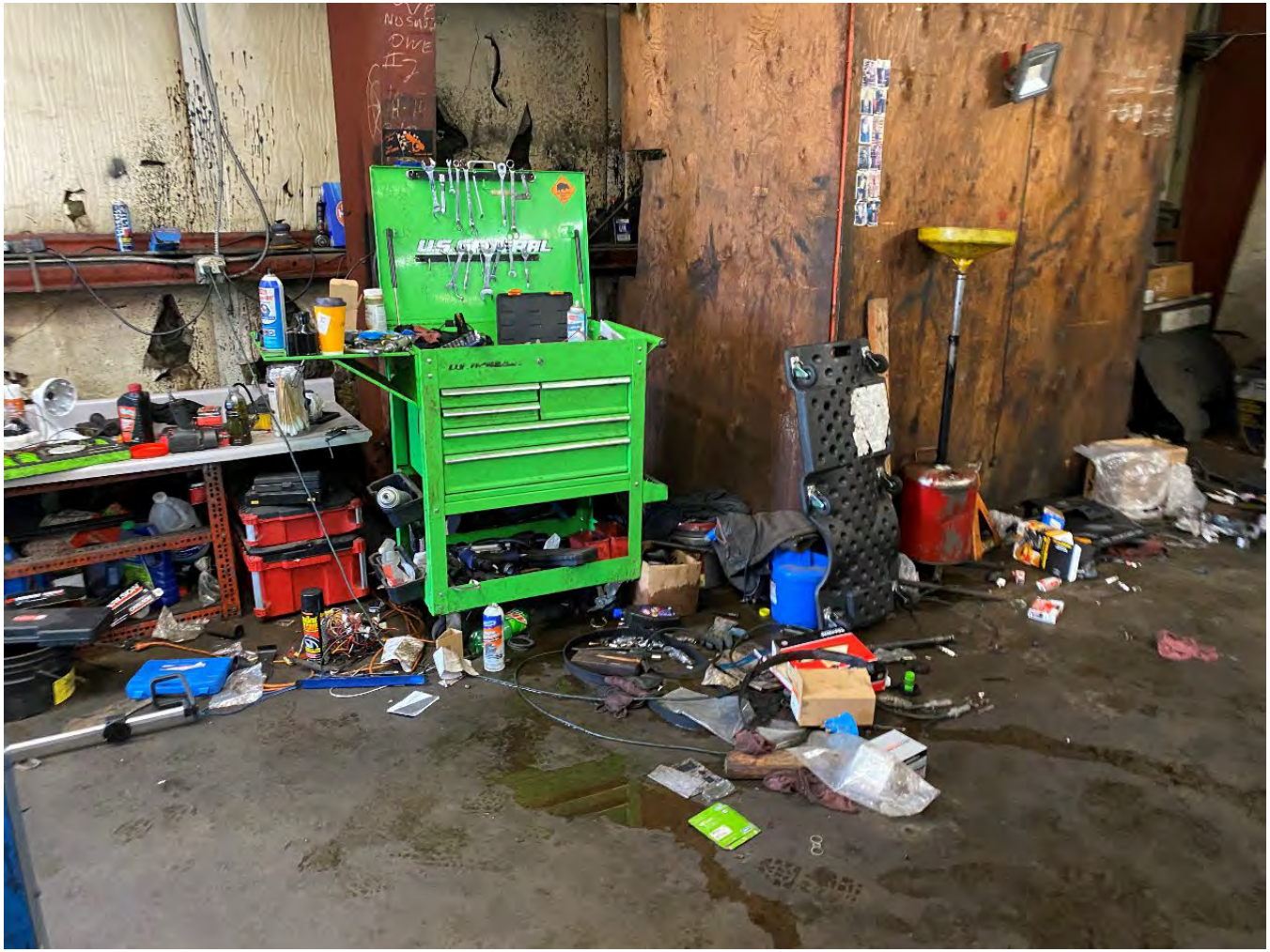
Data source credits: None || Basemap Service Layer Credits: © OpenStreetMap (and) contributors, CC-BY-SA

ATTACHMENT B

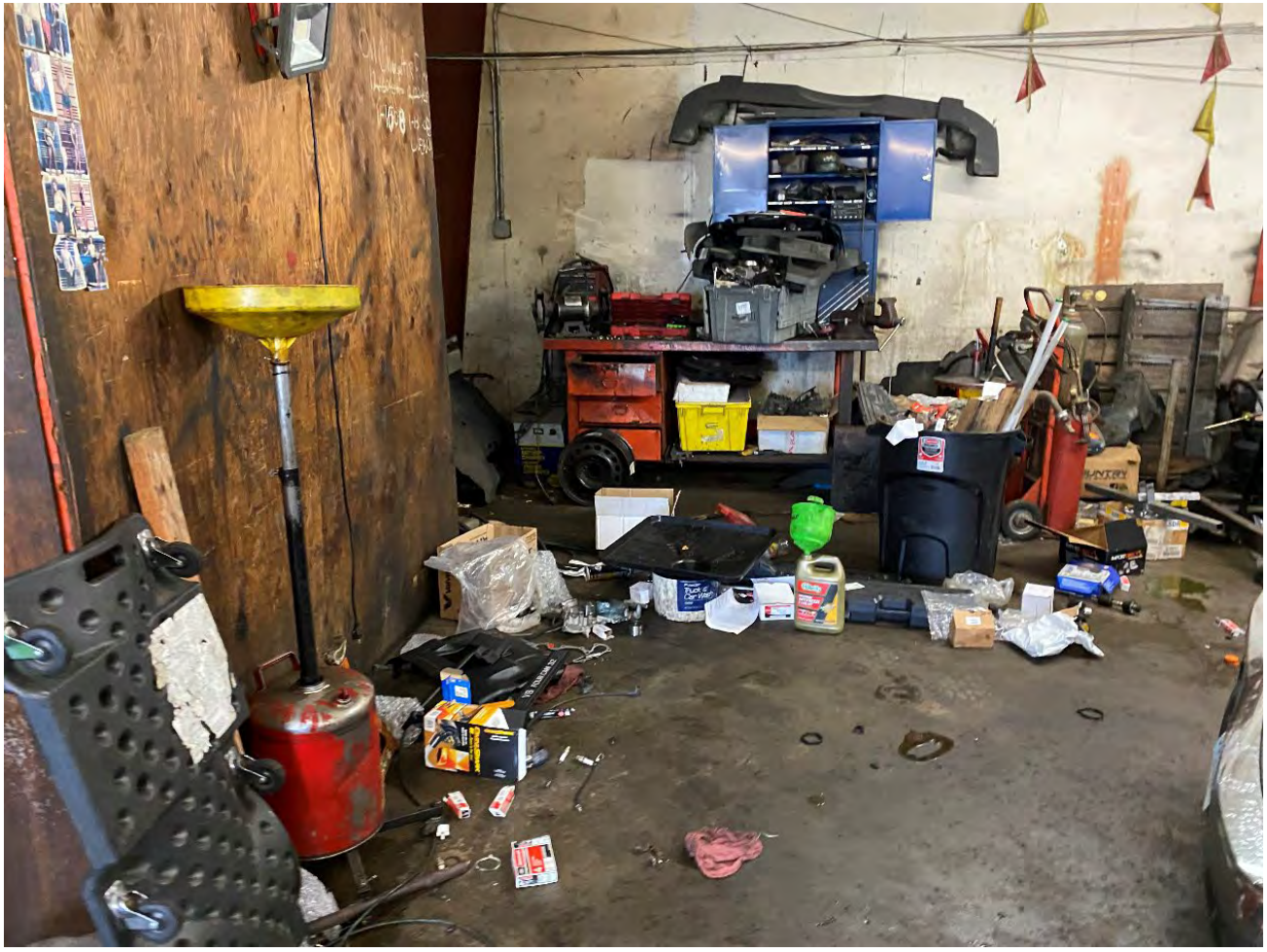
Select Photographs



Photograph 1. Chemical storage cabinets located along east wall of the service area of the warehouse.



Photograph 2. Chemical storage and general housekeeping along the south wall of the service area of the warehouse. Photograph also depicts puddles observed and screened during the May 2023 site visit.



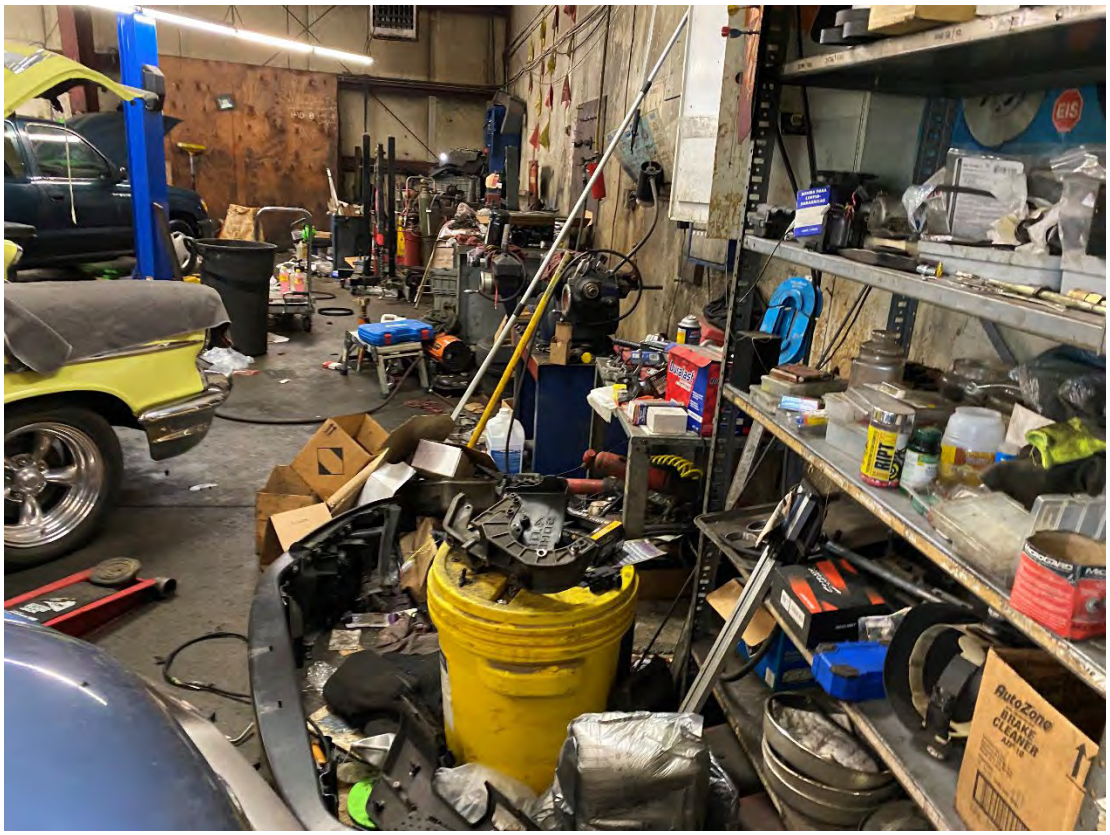
Photograph 3. Showing general housekeeping conditions throughout the warehouse. This photo shows the southwest corner of the service area of the warehouse.



Photograph 4. Another view of the southwest corner of the warehouse, facing south.



Photograph 5. Collecting Gastec measurements of PCE in air over the open bucket of unknown liquid in southwest corner of service area of warehouse.



Photograph 6. West wall of the service area where sample IA-04 was collected. The can of Mac's Brake Cleaner and the refillable Sure Shot canister hand-labeled "Brake Cleaner" were discovered under the cardboard boxes in the middle of this photograph.



Photograph 7. The can of PCE-containing brake cleaner identified by TIG during their April 2023 chemical inventory.



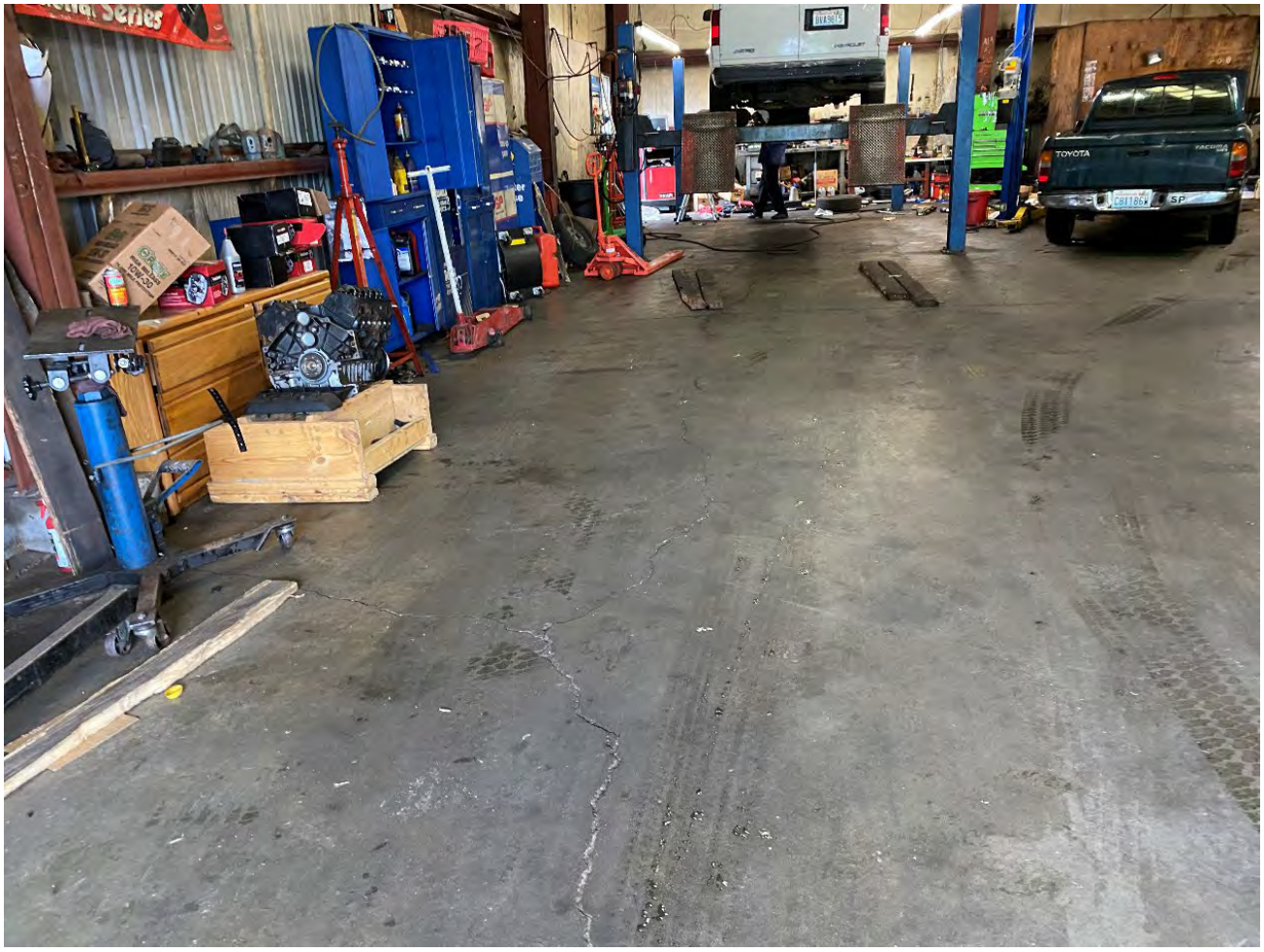
Photograph 8. The Sure Shot canister hand-labeled as "Brake Cleaner" identified during the May 2023 chemical inventory. The canister was located under piles of cardboard boxes and other materials in the vicinity of indoor air sample IA-04.



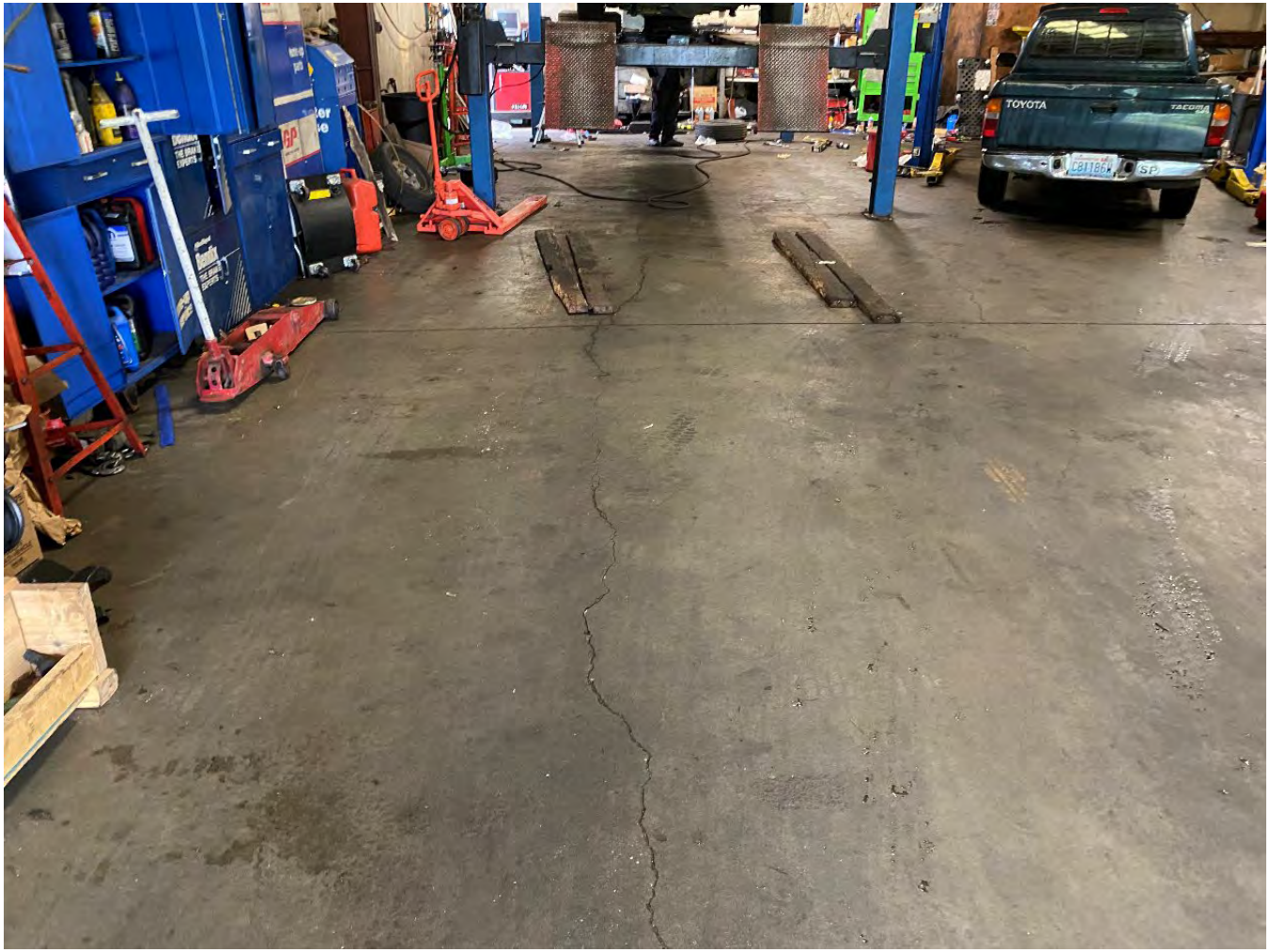
Photograph 9. Used oil and antifreeze storage at the demising wall between the service and tire storage areas of the warehouse.



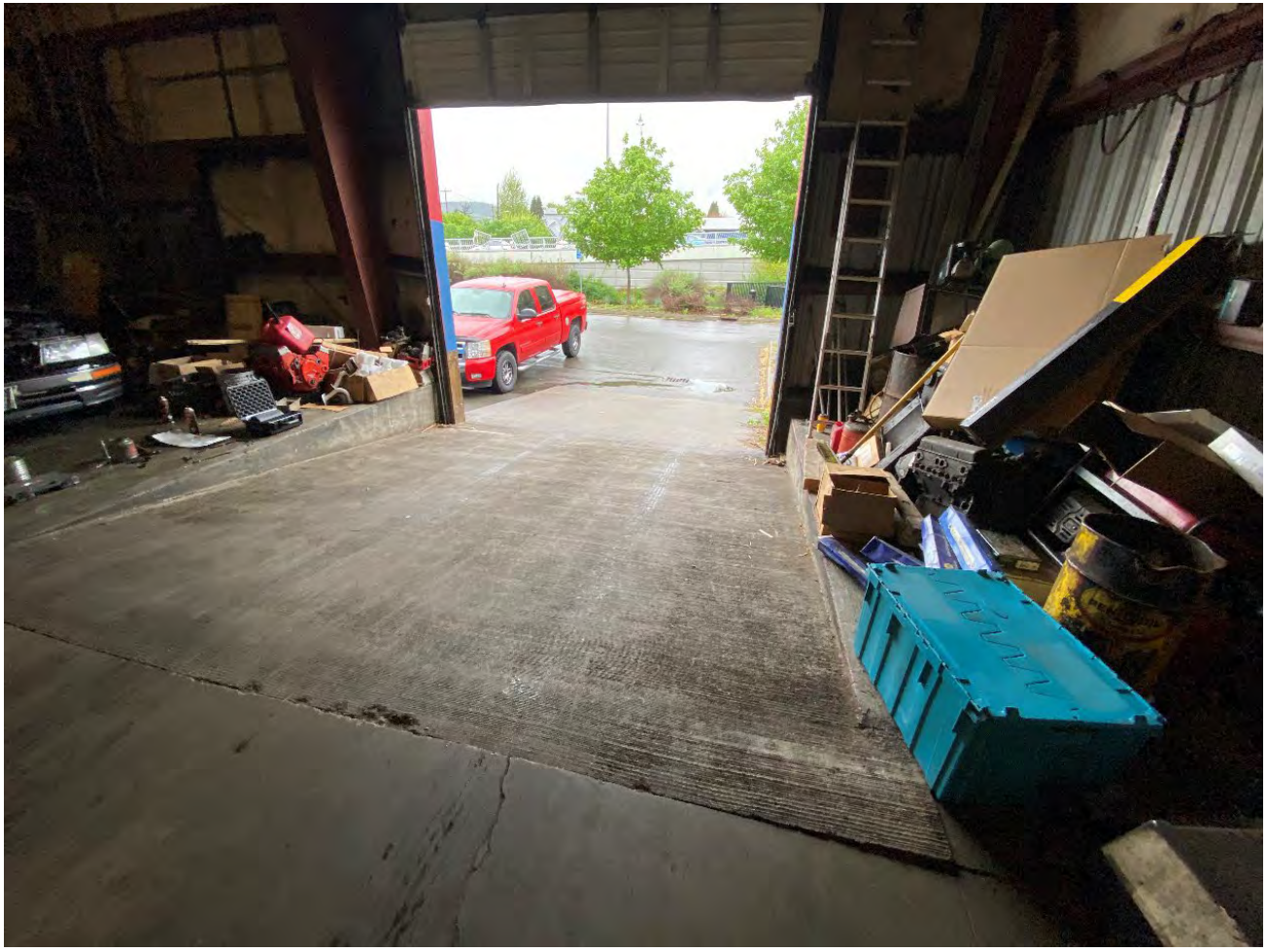
Photograph 10. Open containers of kerosene that appeared to be the source of elevated PPB PID readings in the office room of the lobby.



Photograph 11. The crack in the warehouse slab that runs north-south and is located close to the east wall of the warehouse. This was the only observed significant crack in the slab.



Photograph 12. Another photograph showing the slab crack in the east side of the warehouse.



Photograph 13. Entrance ramp to the service area of the warehouse and showing apparent saw cuts at corners.



Photograph 14. General slab condition throughout the remainder of the warehouse was noted to be in excellent conditions with no significant cracks or penetrations observed.



Photograph 15. Another photograph showing general slab condition in the tire storage area of the warehouse.



Photograph 16. Photograph taken from the second floor in the warehouse showing tire storage and general construction of the lobby (which is within the larger warehouse).