



September 15, 2017

Mr. Steve Teel
Cleanup Project Manager
Department of Ecology – Toxics Cleanup Program
Southwest Regional Office

Re: Targeted Groundwater Monitoring Results

Former Tacoma Metals Site
Project No. 160420

Dear Steve:

Aspect Consulting, LLC (Aspect) has prepared this memorandum to summarize groundwater monitoring at the Former Tacoma Metals Site (Site) conducted on June 22, 2017. This targeted investigation was conducted to address Washington State Department of Ecology (Ecology) comments included in their Comments on the *Revised Augmented Remedial Investigation and Feasibility Report*, dated April 18, 2016 (Ecology, 2016). This memorandum is organized to discuss the scope, methods, findings, and recommendations.

Scope

The scope of this targeted investigation was discussed and agreed to during an April 12, 2017, phone call between Aspect (Peter Bannister) and Ecology Site Manager (Steve Teel). The groundwater monitoring scope addressed Ecology's remaining uncertainties with respect to Site groundwater characterization. Monitoring wells accessed during the targeted investigation are located near the north-northwest corner of the property near the Puyallup River (Figure 1).

Hexavalent Chromium

A hexavalent chromium cleanup level of 10 micrograms per liter was proposed in the *Revised Augmented Remedial Investigation and Feasibility Study Report - Former Tacoma Metals Site* (Kennedy/Jenks, 2014). Ecology requested that groundwater samples from selected wells be analyzed for total and dissolved chromium (see Comment 7.e., Ecology, 2016). During a monitoring event on December 3, 2016 (Aspect, 2017), reporting limits for hexavalent were greater than the proposed cleanup level, due to interference issues associated with the laboratory method. Therefore, to address Ecology's remaining uncertainty, an alternative laboratory method was selected with a reporting limit below the proposed cleanup level. Monitoring well MW-20 had the highest concentrations of total chromium (5.50 micrograms per liter) among four monitoring wells sampled on December 3, 2016, and was selected as the sampling location for this targeted investigation.

Light Non-Aqueous Phase Liquid

Light non-aqueous phase liquid (LNAPL) had been previously observed at monitoring well MW-8(R). A sample of LNAPL from MW-8(R) was evaluated by Friedman & Bruya, Inc. of Seattle, Washington and found to contain only creosote product (Kennedy/Jenks, 2007). The



following table provides historical LNAPL thickness measurements, and is an excerpt from the 2007 data summary report (Kennedy/Jenks, 2007).

To address Ecology's remaining uncertainty, the LNAPL thickness at MW-8(R) was measured.

MW-8(R)	
LNAPL Measurement History	
Date	LNAPL Thickness (feet)
16-Dec-03	1.15 ^(c)
8-Jan-04	0.01
16-Jan-04	0.07
28-Jan-04	0.07
20-Feb-04	0.40
10-Mar-04	0.25
10-Jun-04	0.12
17-Sep-04	<0.01 ^(d)
10-Dec-04	0.08
30-Mar-05	0.03
9-Jun-05	0.90
23-Oct-05	<0.01
2-Feb-06	0.22
12-Dec-06	0.18

Figure 1. Excerpt from 2007 Data Summary Report

Methods

The scope of groundwater monitoring included water level and field parameter measurement, and collection of a groundwater sample for hexavalent chromium analysis, from monitoring well MW-20. In addition, the thickness of LNAPL was measured at monitoring well MW-8(R).

Aspect mobilized during low-tide conditions on June 22, 2017, for groundwater monitoring activities. Lower-low tide was predicted to occur at approximately 13:25, according to the National Oceanic and Atmospheric Administration (NOAA) tide station in Commencement Bay. Weather conditions included clear skies and a light breeze.

The following monitoring and sampling methods were followed at monitoring well MW-20:

- The depth to water was measured from the top of casing to the nearest 0.01 foot.
- Monitoring well MW-20 was purged using dedicated tubing in accordance with U.S. Environmental Protection Agency (EPA) low-flow purge methods until water quality parameters stabilized and turbidity was less than 25 nephelometric turbidity units (NTUs).
- A sample was field-filtered and collected in a laboratory-supplied container for dissolved hexavalent chromium analysis. Filtering was performed using an in-line, 0.45-micron filter.

The sample was stored in a cooler under chain-of-custody procedures and relinquished to BSK Associates, in Vancouver, Washington, for laboratory analysis of hexavalent chromium (by EPA 218.7).

The following monitoring methods were followed at monitoring well MW-8(R):

- The depths to the top of the LNAPL, and to water below the LNAPL, were measured from the top of casing to the nearest 0.01 foot using an oil-water interface probe.
- The depth to the LNAPL surface was subtracted from the depth to water surface to determine the thickness of LNAPL.

Field observations and parameters at monitoring well MW-20 were recorded on a groundwater sampling record form, and the LNAPL/water level depths at MW-8(R) were recorded in a field notebook. Copies of the groundwater sampling record form and the field notebook are provided in Appendix A.

Results and Discussion

The concentration of hexavalent chromium in groundwater from monitoring well MW-20 was not detected above the laboratory reporting limit of 0.20 microgram per liter. The field observations and laboratory analytical results are summarized in Table 1. The BSK Associates laboratory report is included as Appendix B.

The low potential hexavalent chromium concentrations, and the low total chromium concentrations previously observed, supports removing hexavalent chromium from the list of potential contaminants of concern. As suggested by Ecology, these findings support assigning a chromium (III) cleanup level of 120 ug/L, corrected for a site-specific hardness value of 180 (see Comment 7.e., Ecology 2016).

The measured LNAPL thickness at MW-8(R) was 0.89 feet, and was confirmed by a second reading of 0.88 feet (see field notes in Appendix A).

References

- Aspect Consulting, LLC (Aspect), 2017, Focused Groundwater Monitoring Results, Former Tacoma Metals Site, Letter to Mr. Steve Teel, Cleanup Project Manager, Dated March 21, 2017.
- Kennedy/Jenks Consultants, 2007, Supplemental Data Summary Report, Former Tacoma Metals Site, Tacoma, Washington, Prepared for Portland Avenue Associates, LLC, Dated May 2007.
- Kennedy/Jenks Consultants, 2014, Revised Augmented Remedial Investigation and Feasibility Report, Former Tacoma Metals Site, Tacoma, Washington, Prepared for Portland Avenue Associates, LLC, Dated September 2014.
- Washington State Department of Ecology (Ecology), 2016, Comments on the Revised Augmented Remedial Investigation and Feasibility Report, dated September 2014, prepared by Kennedy/Jenks, Former Tacoma Metals Site, Agreed Order DE 97-5435, Facility/Site No. 1257, Cleanup Site ID No. 3910, Dated April 18, 2016.

Limitations

Work for this project was performed for the Estate of Sophie Sussman (Client), and this letter 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 letter 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.

Sincerely,

Aspect consulting, LLC



Peter Bannister, PE

Associate Engineer

pbannister@aspectconsulting.com

Attachments: Table 1 – Groundwater Quality Data
Figure 1 – Sample Location and Affected Soil Area Map (Figure 3, Kennedy/Jenks Consultants)
Appendix A – Groundwater Sampling Records and Field Notes
Appendix B – BSK Associates Laboratory Report

cc: Loren Dunn, Beveridge & Diamond

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Table 1 - Groundwater Quality Data

Project No. 160420, Former Tacoma Metals Site, Tacoma, Washington

Field Observations

Well ID	Sample Date Time	Sample Tube Intake Depth ft bTOC	Static Depth to Water ft bTOC
MW-20	6/22/17 13:25	25	8.86

Field Parameters

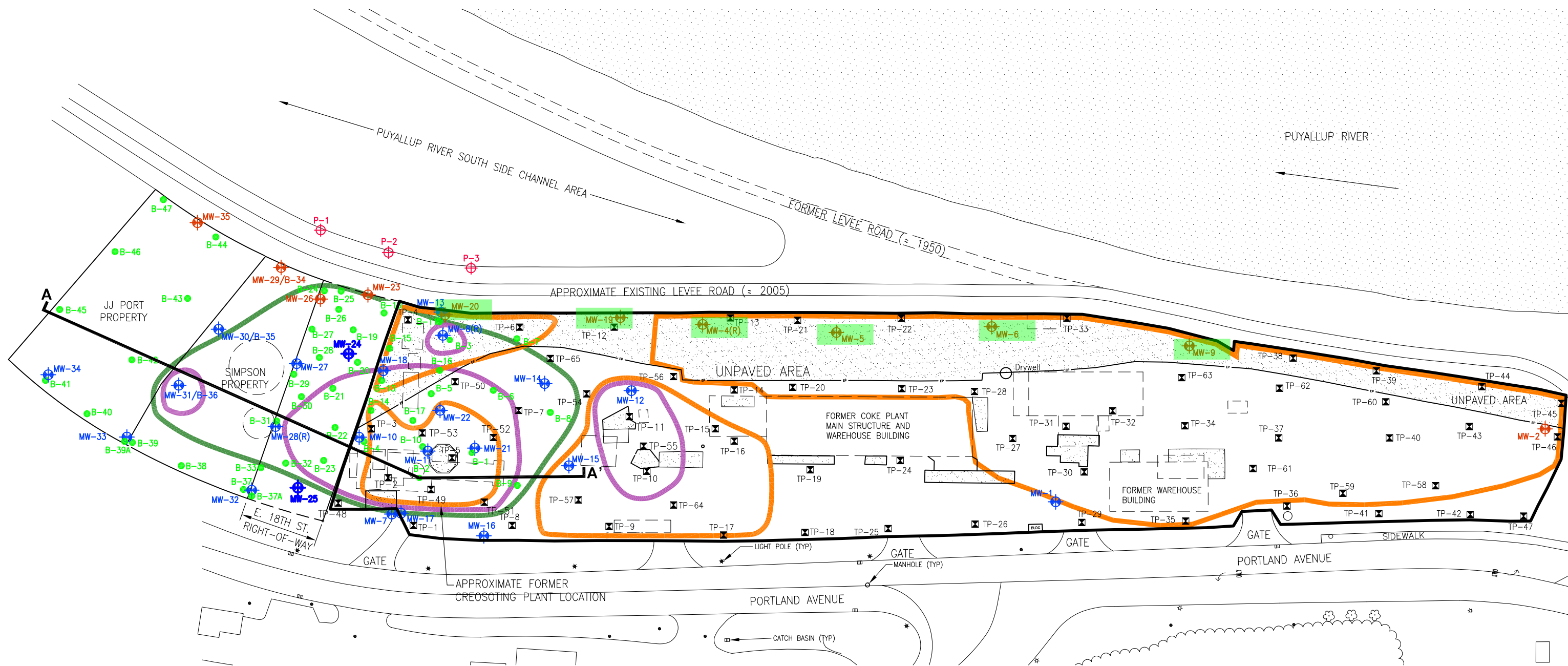
Well ID	Sample Date Time	Temperature °C	Specific Conductivity µS/cm	Dissolved Oxygen mg/L	pH	Oxidation-Reduction Potential mV	Turbidity NTU
MW-20	6/22/17 13:25	14.9	2267	0.2	7.32	91.9	16.0

Laboratory Analytical Results

Well ID	Sample Date Time	Hexavalent Chromium µg/L
MW-20	6/22/17 13:25	<0.20
Proposed Cleanup Level (µg/L)		10

Notes

Units: ft bTOC = feet below top of casing; C = degrees Celcius; mg/L = micrograms/Liter; mV = millivolts; NTU = nephthalometric turbidity units; µg/L = micrograms/Liter
Proposed Cleanup Levels provided in the Revised Augemented Remedial Investigation and Feasibility Study Report - Former Tacoma Metals Site (Kennedy/Jenks, 2014).



LEGEND:

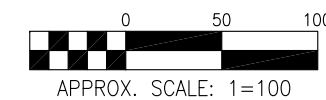
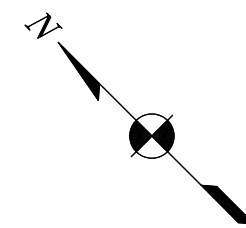
- B-1 SOIL BORING LOCATION
- ⊕ MW-26 PROPOSED POINT OF COMPLIANCE MONITORING WELLS AND PIEZOMETERS
- ⊕ P-1
- ⊕ MW-26 OTHER MONITORING WELL LOCATION
- ⊠ TP-26 TEST PIT LOCATION
- UNPAVED AREA
- APPROXIMATE PREVIOUS STRUCTURE LOCATION (IDENTIFIED IN HISTORICAL AERIAL PHOTOGRAPHS AND/OR SANBORN MAPS) REFER TO FIGURE 1-2 IN APPENDIX C FOR ADDITIONAL INFORMATION
- A A' GENERALIZED CROSS-SECTION LOCATION (SEE FIGURE 6)

ESTIMATED EXTENT OF AFFECTED SOIL:

- AFFECTED SOIL LESS THAN 6' bgs
- AFFECTED SOIL 6 TO 15' bgs
- AFFECTED SOIL GREATER THAN 15' bgs

NOTES:

1. WELL LOCATIONS ARE BASED ON SITE SURVEY BY EARTH TECH, INC. ON 28 MARCH 2000, 13 MARCH 2003, 31 DECEMBER 2003, 14 APRIL 2004, 21 APRIL 2005, 29 MARCH 2006, AND 11 APRIL 2008.
2. bgs = BELOW GROUND SURFACE.
3. AFFECTED SOIL = SOIL WITH CONTAMINANTS AT CONCENTRATIONS ABOVE PROPOSED SITE CLEANUP LEVELS.
4. REFER TO FIGURES 4-1 THROUGH 4-4 IN APPENDIX C FOR DISTRIBUTION OF SPECIFIC CONTAMINANTS IN SOIL.
5. ALL LOCATIONS AND AREAS ARE APPROXIMATE.



Kennedy/Jenks Consultants

FORMER TACOMA METALS FACILITY
TACOMA, WA

**SAMPLE LOCATION AND
AFFECTED SOIL AREA MAP**

996098.00\2013 RI UPDATE\FIG_03

APPENDIX A

Groundwater Sampling Records and Field Notes

GROUNDWATER SAMPLING RECORD WELL NUMBER: MW-20 Page: 1 of 1

Project Name: Tacoma Metals Project Number: 160420
 Date: 6/22/17 Starting Water Level (ft TOC): 8.86
 Developed by: ENK Casing Stickup (ft): _____
 Measuring Point of Well: TOC Total Depth (ft TOC): _____
 Screened Interval (ft. TOC) _____ Casing Diameter (inches): 2
 Filter Pack Interval (ft. TOC) _____
 Casing Volume _____ (ft Water) x _____ (Lpfv)(gpf) = _____ (L)(gal)
 Casing volumes: 3/4" = 0.02 gpf 2" = 0.16 gpf 4" = 0.65 gpf 6" = 1.47 gpf Sample Intake Depth (ft TOC): ~25
 3/4" = 0.09 Lpf 2" = 0.62 Lpf 4" = 2.46 Lpf 6" = 5.56 Lpf

PURGING MEASUREMENTS

Criteria:	Typical 0.1-0.5 Lpm	Stable and minimal	na	± 3%	± 10%	± 0.1	± 10 mV	± 10%		
Time	Cumul. Volume (gal or L)	Purge Rate (gpm or Lpm)	Water Level (ft)	Temp. (°C)	Specific Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	pH	Eh ORP (mv)	Turbidity (NTU)	Comments
		<u>0.15</u>	<u>8.86</u>							Start purge @ <u>1250</u>
<u>1254</u>			<u>9.10</u>	<u>15.2</u>	<u>2278</u>	<u>3.78</u>	<u>7.30</u>	<u>96.9</u>	<u>3.98</u>	
<u>1257</u>			<u>9.10</u>	<u>15.0</u>	<u>2275</u>	<u>1.74</u>	<u>7.32</u>	<u>91.1</u>		
<u>1300</u>			<u>9.10</u>	<u>15.0</u>	<u>2274</u>	<u>0.62</u>	<u>7.31</u>	<u>89.8</u>	<u>55.1</u>	
<u>1303</u>			<u>9.10</u>	<u>15.0</u>	<u>2270</u>	<u>0.25</u>	<u>7.32</u>	<u>90.9</u>		
<u>1306</u>			<u>9.10</u>	<u>14.9</u>	<u>2267</u>	<u>0.20</u>	<u>7.32</u>	<u>91.9</u>	<u>16.0</u>	
										Stop purge @ <u>1306</u>

Total Gallons Purged: ~1.0 (EST. FROM BUCKET) Total Casing Volumes Removed: _____
 Ending Water Level (ft TOC): 9.10 Ending Total Depth (ft TOC): _____

SAMPLE INVENTORY

Time	Volume	Bottle Type	Quantity	Filtration	Preservation	Appearance		Remarks
						Color	Turbidity & Sediment	
<u>1325</u>	<u>100mL</u>	<u>POLY</u>	<u>1</u>	<u>Y</u>	<u>NH4SO4</u>	<u>—</u>	<u>—</u>	<u>MW-20-062217</u>

METHODS

Sampling Equipment with IDs: YSI YELLOW
 Purging Equipment: Peristaltic pump Decon Equipment: Alconox and water + Dedicated tubing
 Disposal of Discharged Water: Drum on site
 Observations/Comments: _____

6/22/17

□ IN-HOUSE

SUSSMAN (160420)

□ MILEAGE

CLEAR; 70's

OBJECTIVE: COLLECT GW SAMPLE AT MW-20 &
MEASURE LNAPL THICKNESS AT MW-BR.
GW SAMPLE TO BE ANALYZED FOR HEX
CHROME BY EPA 218.6

1200 - ON SITE - ROO w/ DNR ON SITE &
UNLOCKED GATE. ROO DEPARTED AFTER
OPENING GATE.

↳ CALIBRATE YSI YELLOW

1225 - CHECK LNAPL THICKNESS AT MW-BR:

2" Ø WELL:

LNAPL (ft. BTDC): 8.84

1) WATER (ft. BTDC): 9.73

THICKNESS (ft.):

- DECON INTERFACE PROBE & CHECK AGAIN -

LNAPL (ft. BTDC): 8.85

2) WATER (ft. BTDC): 9.73

THICKNESS (ft.):

↳ MW-BR HAS A MODERATE MOTHBALL-LIKE

ODOR COMING FROM TOC; NO LOCK;

OBVIOUS PRODUCT, WITH LOW VISCOSITY

REL TO WATER AND CAMEL COLOR, ON

Scale: 1 square = _____

6/22/17 - SUSSMAN CONT'D

DL

PROBE. STICK-UP, CASING & PLUG IN
GOOD CONDITION.

1250 - SET UP FOR PURGE AT MW-20.

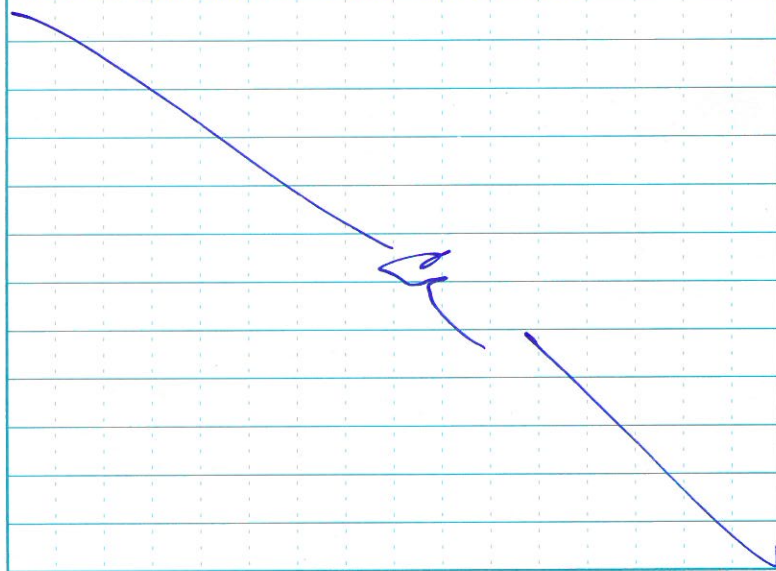
1325 - COLLECTED SAMPLE: MW-20-062217

SITE COMMENTS:

• THERE IS A LARGE HOLE IN FENCE NEAR
MW-20 - PICTURE TAKEN

• NO IDW DRUM ON SITE. I PUT A
"PENNING" LABEL ON PURGE BUCKET
AND SET IT OUT OF SIGHT NEAR ELD
BUCKLE IN MIDDLE-PORTION OF SITE.

1400 - LOCKED GATE & DEPARTED SITE



Scale: 1 square = _____

Rite in the Rain

APPENDIX B

BSK Associates Laboratory Report



BSK Associates Vancouver
2517 E. Evergreen Blvd.
Vancouver, WA 98661
360-750-0055 (Main)
360-750-0057 (FAX)

V7F0491

7/10/2017

Invoice: V702201

Peter Banister
Aspect Consulting
350 Madison Avenue N.
Bainbridge Island, WA 98110

RE: Report for V7F0491 Sussman - 160420

Dear Peter Banister,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 6/23/2017. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2009 TNI Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an "as received" basis.

If additional clarification of any information is required, please contact your Project Manager, Debra Karlsson, at (360) 750-0055.

Thanks again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,

Renea Rangell, Laboratory Director - Vancouver



Accredited in Accordance with NELAP
ORELAP #4021

Case Narrative

Project and Report Details **Invoice Details**

Client: Aspect Consulting
Report To: Peter Banister
Project #: Sussman - 160420
Received: 6/23/2017 - 08:45
Report Due: 7/10/2017

Invoice To: Aspect Consulting
Invoice Attn: Peter Banister
Project PO#: -

Sample Receipt Conditions

Cooler: Default Cooler
Temperature on Receipt °C: 10.5

Containers Intact
COC/Labels Agree
Received On Blue Ice
Packing Material - Other
Initial receipt at BSK-VAL

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

MS1.0 Matrix spike recoveries exceed control limits.

Report Distribution

Recipient(s)	Report Format	CC:
Peter Banister	FINAL.RPT	agriffin@aspectconsulting.com;eknoedler@aspectconsulting.com



V7F0491

Sussman - 160420

Sussman - 160420

Certificate of Analysis

Sample ID: V7F0491-01

Sampled By: Client

Sample Description: MW-20-062217 // Aspect Consulting

Sample Date - Time: 06/22/17 - 13:25

Matrix: Water

Sample Type: Other

BSK Associates Laboratory Fresno

General Chemistry

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Hexavalent Chromium	EPA 218.6	ND	0.029	0.20	ug/L	1	A708387	07/05/17	07/05/17	

**BSK Associates Laboratory Fresno
General Chemistry Quality Control Report**

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
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EPA 218.6 - Quality Control

Batch: A708387

Prepared: 7/5/2017

Prep Method: Method Specific Preparation

Analyst: RES/l

Blank (A708387-BLK1)

Hexavalent Chromium	ND	0.029	0.20	ug/L							07/05/17	
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Blank Spike (A708387-BS1)

Hexavalent Chromium	2.0	0.029	0.20	ug/L	2.0		98	90-110			07/05/17	
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Blank Spike Dup (A708387-BSD1)

Hexavalent Chromium	2.0	0.029	0.20	ug/L	2.0		102	90-110	4	10	07/05/17	
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Matrix Spike (A708387-MS1), Source: A7F1968-01

Hexavalent Chromium	11	0.029	0.20	ug/L	2.0	9.4	89	90-110			07/05/17	MS1.0 Low
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Matrix Spike Dup (A708387-MSD1), Source: A7F1968-01

Hexavalent Chromium	11	0.029	0.20	ug/L	2.0	9.4	93	90-110	1	10	07/05/17	
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Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method, all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.
- The MCLs provided in this report (if applicable) represent the primary MCLs for that analyte.

Definitions

mg/L:	Milligrams/Liter (ppm)	MDL:	Method Detection Limit	MDA95:	Min. Detected Activity
mg/Kg:	Milligrams/Kilogram (ppm)	RL:	Reporting Limit: DL x Dilution	MPN:	Most Probable Number
µg/L:	Micrograms/Liter (ppb)	ND:	None Detected at RL	CFU:	Colony Forming Unit
µg/Kg:	Micrograms/Kilogram (ppb)	pCi/L:	Picocuries per Liter	Absent:	Less than 1 CFU/100mLs
%:	Percent Recovered (surrogates)	RL Mult:	RL Multiplier	Present:	1 or more CFU/100mLs
NR:	Non-Reportable	MCL:	Maximum Contaminant Limit		

Please see the individual Subcontract Lab's report for applicable certifications.

BSK is not accredited under the NELAP program for the following parameters:

Certifications: Please refer to our website for a copy of our Accredited Fields of Testing under each certification.

Fresno

State of California - ELAP	1180	State of Hawaii	4021
State of Nevada	CA000792016-1	State of Oregon - NELAP	4021
EPA - UCMR4	CA00079	State of Washington	C997-16
State of New York	12073		

Sacramento

State of California - ELAP 2435

San Bernardino

State of California - ELAP 2993 State of Oregon - NELAP 4119-001

Vancouver

State of Oregon - NELAP WA100008-008 State of Washington C824-16

Sample Integrity

Work Order Label

BSK Bottles: Yes No Page of

COC Info	Was temperature within range? Chemistry $\leq 6^{\circ}\text{C}$ Micro $< 8^{\circ}\text{C}$	Yes	No	NA	Were correct containers and preservatives received for the tests requested?	Yes	No	NA
		If samples were taken today, is there evidence that chilling has begun?	<u>Yes</u>	No	NA	Were there bubbles in the VOA vials? (Volatiles Only)	Yes	No
	Did all bottles arrive unbroken and intact?	<u>Yes</u>	No		Was a sufficient amount of sample received?	<u>Yes</u>	No	<u>No</u>
	Did all bottle labels agree with COC?	<u>Yes</u>	No		Do samples have a hold time <72 hours?	Yes	<u>No</u>	
	Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?	Yes	No	<u>NA</u>	Was PM notified of discrepancies? PM: _____ By/Time: _____	Yes	No	<u>NA</u>
Bottles Received	250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V)	Checks						
	Bacti Na ₂ S ₂ O ₃	—						
	None (P) White Cap	—						
	Cr6 (P) Lt. Green Label/Blue Cap NH ₄ OH(NH ₄) ₂ SO ₄ DW	Cl, pH > 8						
	Cr6 (P) Pink Label/Blue Cap NH ₄ OH(NH ₄) ₂ SO ₄ WW	pH 9.3-9.7			IA			
	Cr6 (P) Black Label/Blue Cap NH ₄ OH(NH ₄) ₂ SO ₄ 7199 ***24 HOUR HOLD TIME***	pH 9.0-9.5						
	HNO ₃ (P) Red Cap or HCl (P) Purple Cap/Lt. Blue Label	—						
	H ₂ SO ₄ (P) or (AG) Yellow Cap/Label	pH < 2						
	NaOH (P) Green Cap	Cl, pH >10						
	NaOH + ZnAc (P)	pH > 9						
	Dissolved Oxygen 300ml (g)	—						
	None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270	—						
	HCl (AG) Lt. Blue Label O&G, Diesel	—						
	Ascorbic, EDTA, KH ₂ Ct (AG) Pink Label 525	—			IA DW			
	Na ₂ O ₃ S 250mL (AG) Neon Green Label 515	—						
	Na ₂ S ₂ O ₃ 1 Liter (Brown P) 549	—						
	Na ₂ S ₂ O ₃ (AG) Blue Label 548, THM, 524	—						
	Na ₂ S ₂ O ₃ (CG) Blue Label 504, 505, 547	—						
	Na ₂ S ₂ O ₃ + MCAA (CG) Orange Label 531	pH < 3						
	NH ₄ Cl (AG) Purple Label 552	—						
	EDA (AG) Brown Label DBPs	—						
	HCL (CG) 524.2, BTEX, Gas, MTBE, 8260/624	—						
	Buffer pH 4 (CG)	—						
	H ₃ PO ₄ (CG) Salmon Label	—						
	Other:							
Asbestos 1Liter Plastic w/ Foil	—							
Low Level Hg / Metals Double Baggie	—							
Bottled Water	—							
Clear Glass 250mL / 500mL / 1 Liter	—							
Soil Tube Brass / Steel / Plastic	—							
Tedlar Bag / Plastic Bag	—							
Split	Container	Preservative	Date/Time/Initials		Container	Preservative	Date/Time/Initials	
	S P				S P			
	S P				S P			
Comments								

Labeled by: DW @ 10:00